

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120919\
 Data File : VN059529.D
 Acq On : 9 Dec 2019 15:52
 Operator : JC/SP
 Sample : VSTDICCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 09 16:18:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 09 16:15:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	270123	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	428099	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	435991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	246934	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	167421	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	7.57	113	119531	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
50) Toluene-d8	10.08	98	464574	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	
62) 4-Bromofluorobenzene	12.40	95	194680	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	133832	45.026	ug/l	100
3) Chloromethane	2.04	50	204295	50.359	ug/l	100
4) Vinyl Chloride	2.17	62	204395	74.750	ug/l	100
5) Bromomethane	2.54	94	120652	71.706	ug/l	100
6) Chloroethane	2.68	64	118421	74.132	ug/l	100
7) Trichlorofluoromethane	3.00	101	242658	74.408	ug/l	100
8) Diethyl Ether	3.39	74	76495	41.372	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	120739	43.077	ug/l	100
10) Methyl Iodide	3.93	142	162781	46.278	ug/l	100
11) Tert butyl alcohol	4.75	59	128822	209.978	ug/l	100
12) 1,1-Dichloroethene	3.71	96	113618	41.777	ug/l	100
13) Acrolein	3.58	56	45072	95.513	ug/l	100
14) Allyl chloride	4.30	41	233728	43.273	ug/l	100
15) Acrylonitrile	4.95	53	366586	220.540	ug/l	100
16) Acetone	3.79	43	345869	156.926	ug/l	100
17) Carbon Disulfide	4.03	76	387484	41.445	ug/l	100
18) Methyl Acetate	4.29	43	192176	43.487	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	419523	44.835	ug/l	100
20) Methylene Chloride	4.52	84	137817	39.801	ug/l	100
21) trans-1,2-Dichloroethene	5.01	96	129677	42.372	ug/l	100
22) Diisopropyl ether	5.92	45	460974	45.771	ug/l	100
23) Vinyl Acetate	5.87	43	2003467	246.752	ug/l	100
24) 1,1-Dichloroethane	5.82	63	254883	44.618	ug/l	100
25) 2-Butanone	6.81	43	532579	213.736	ug/l	100
26) 2,2-Dichloropropane	6.80	77	231211	46.352	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	148276	43.535	ug/l	100
28) Bromochloromethane	7.17	49	97229	53.416	ug/l	100
29) Tetrahydrofuran	7.18	42	355681	225.925	ug/l	100
30) Chloroform	7.35	83	252533	45.432	ug/l	100
31) Cyclohexane	7.63	56	235915	42.897	ug/l	100
32) 1,1,1-Trichloroethane	7.55	97	224900	46.400	ug/l	100
36) 1,1-Dichloropropene	7.77	75	196292	44.990	ug/l	100
37) Ethyl Acetate	6.90	43	220596	45.250	ug/l	100
38) Carbon Tetrachloride	7.75	117	197603	46.869	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	230417	44.239	ug/l	100
40) Benzene	8.02	78	569536	44.770	ug/l	100
41) Methacrylonitrile	7.18	41	323993	161.142	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	218122	49.374	ug/l	100
43) Isopropyl Acetate	8.14	43	354322	48.573	ug/l	100
44) Trichloroethene	8.82	130	142799	43.040	ug/l	100
45) 1,2-Dichloropropane	9.10	63	153150	44.985	ug/l	100
46) Dibromomethane	9.19	93	98086	46.028	ug/l	100
47) Bromodichloromethane	9.39	83	202887	47.314	ug/l	100
48) Methyl methacrylate	9.18	41	157080	47.815	ug/l	100
49) 1,4-Dioxane	9.19	88	38137	788.117	ug/l	100
51) 4-Methyl-2-Pentanone	9.97	43	1084856	251.066	ug/l	100
52) Toluene	10.15	92	343837	44.800	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	234742	46.681	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	245576	46.289	ug/l	100
55) 1,1,2-Trichloroethane	10.55	97	136559	45.062	ug/l	100
56) Ethyl methacrylate	10.42	69	209964	47.823	ug/l	100
57) 1,3-Dichloropropane	10.70	76	239498	45.516	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	155041	120.865	ug/l	100
59) 2-Hexanone	10.74	43	825637	253.890	ug/l	100
60) Dibromochloromethane	10.90	129	151914	46.652	ug/l	100
61) 1,2-Dibromoethane	11.00	107	144550	46.044	ug/l	100
64) Tetrachloroethene	10.63	164	125973	35.662	ug/l	100
65) Chlorobenzene	11.43	112	400039	43.106	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	151729	45.339	ug/l	100
67) Ethyl Benzene	11.51	91	751217	46.098	ug/l	100
68) m/p-Xylenes	11.62	106	599234	97.951	ug/l	100
69) o-Xylene	11.95	106	282146	48.428	ug/l	100
70) Styrene	11.96	104	467910	50.142	ug/l	100
71) Bromoform	12.13	173	132600	50.150	ug/l #	100
73) Isopropylbenzene	12.25	105	699563	37.168	ug/l	100
74) N-amyl acetate	12.07	43	330404	42.995	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	246077	40.276	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	336295	55.743	ug/l #	100
77) Bromobenzene	12.53	156	184329	38.676	ug/l	100
78) n-propylbenzene	12.59	91	901920	40.765	ug/l	100
79) 2-Chlorotoluene	12.67	91	523776	39.214	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	656663	41.221	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	89427	40.231	ug/l	100
82) 4-Chlorotoluene	12.77	91	559254	40.419	ug/l	100
83) tert-Butylbenzene	12.99	119	551852	39.948	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	667845	42.787	ug/l	100
85) sec-Butylbenzene	13.17	105	768622	41.865	ug/l	100
86) p-Isopropyltoluene	13.29	119	709337	42.968	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	351593	41.449	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	353458	41.269	ug/l	100
89) n-Butylbenzene	13.62	91	637273	42.963	ug/l	100
90) Hexachloroethane	13.88	117	127804	40.177	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	338790	41.724	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57322	38.876	ug/l	100

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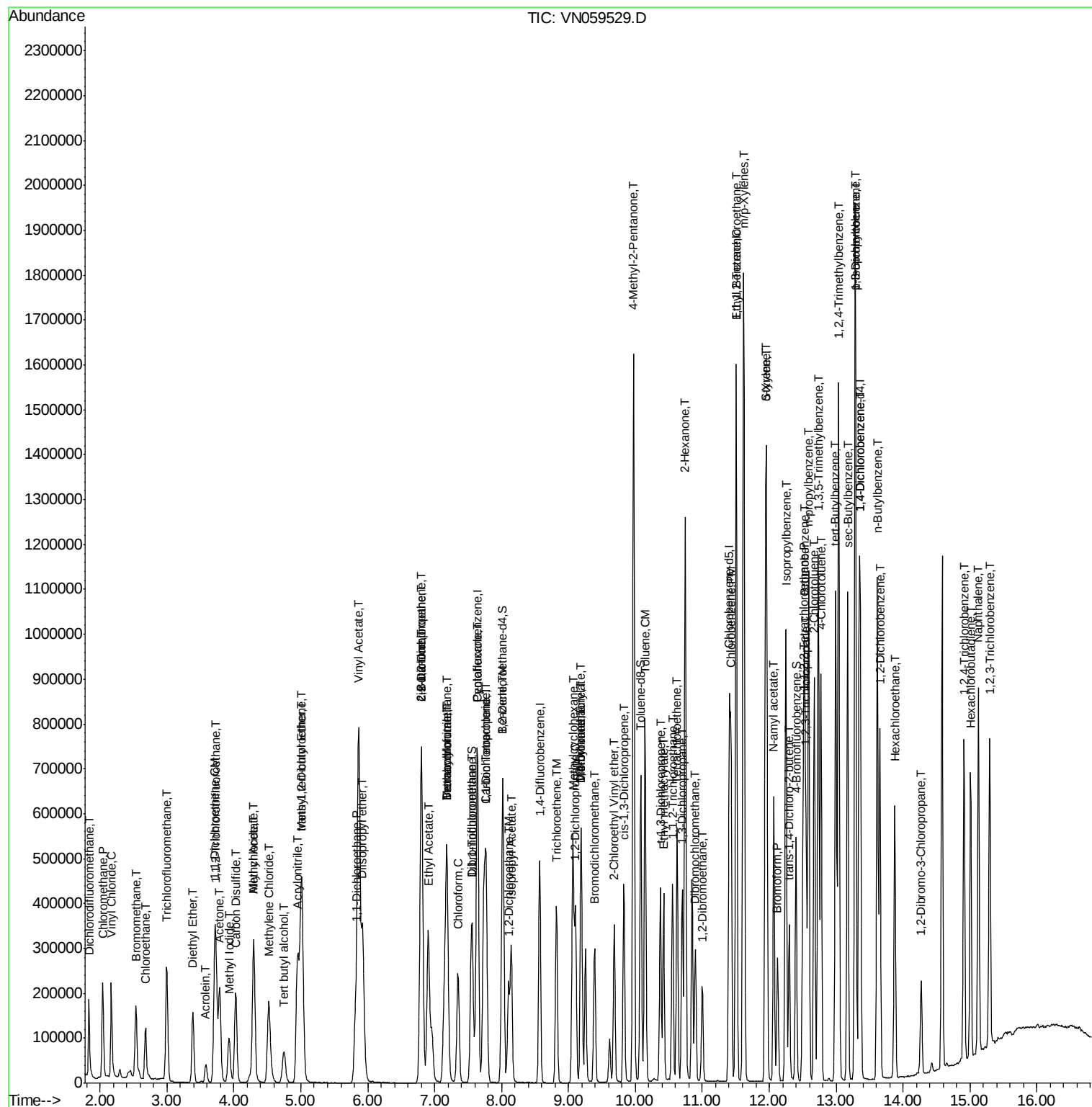
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	234734	45.965	ug/l	100
94) Hexachlorobutadiene	15.01	225	126838	39.896	ug/l	100
95) Naphthalene	15.13	128	658079	43.948	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	226195	41.406	ug/l	100

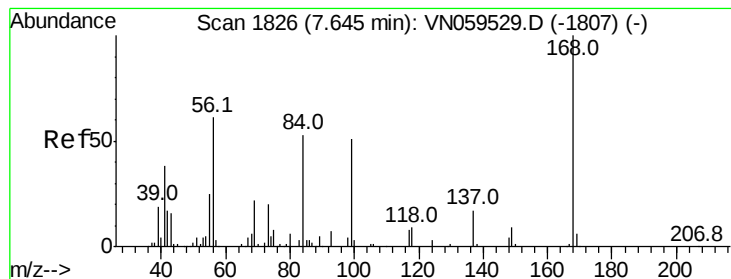
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120919\
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Quant Time: Dec 09 16:18:40 2019
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

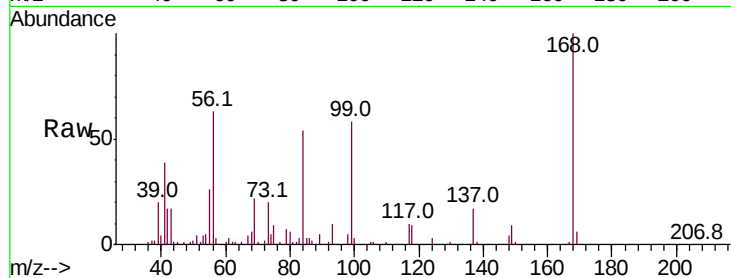
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 270123

Ion Ratio Lower Upper

168 100

99 58.3 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

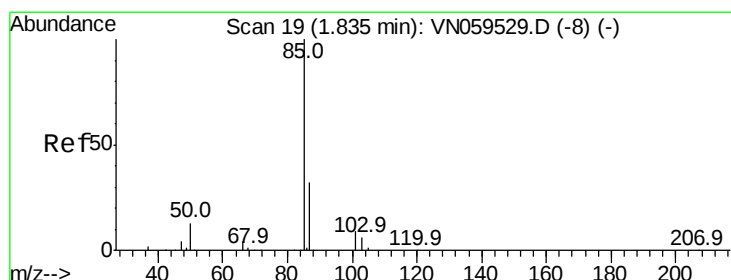
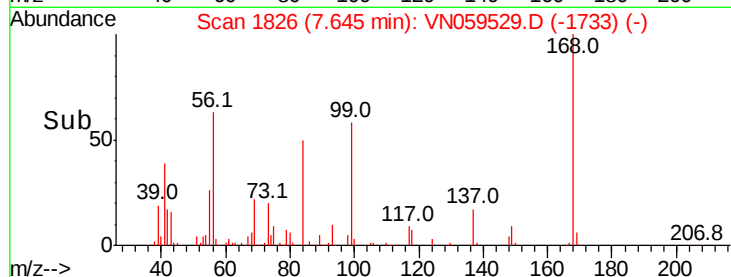
7.64

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.026 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059529.D

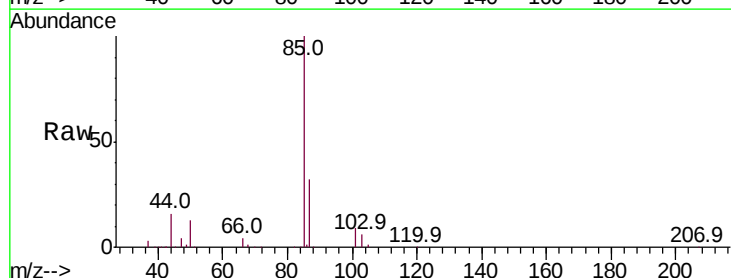
Acq: 9 Dec 2019 15:52

Tgt Ion: 85 Resp: 133832

Ion Ratio Lower Upper

85 100

87 32.0 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

100000

80000

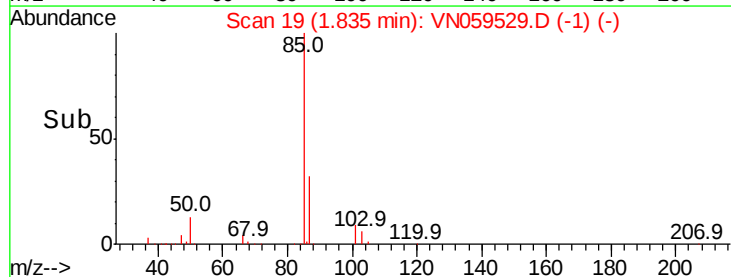
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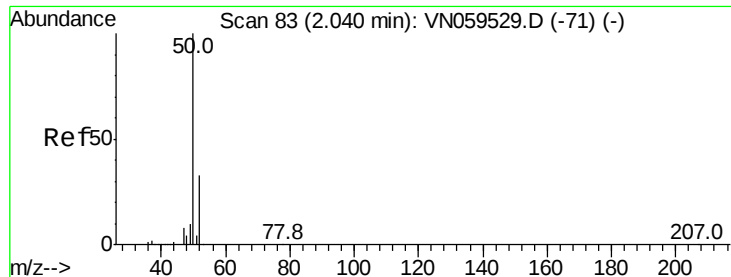
40000

20000

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Time-->





#3

Chloromethane

Concen: 50.359 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

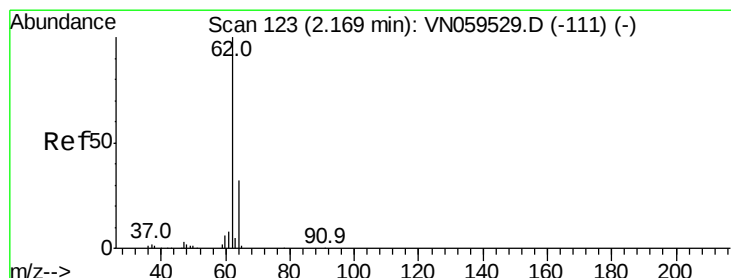
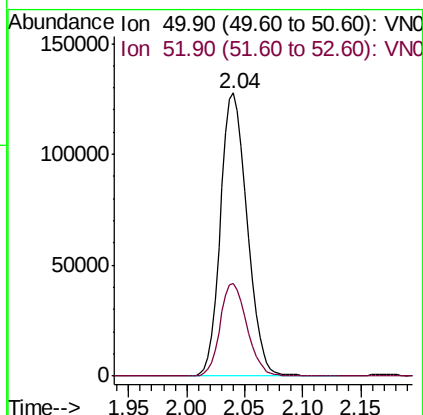
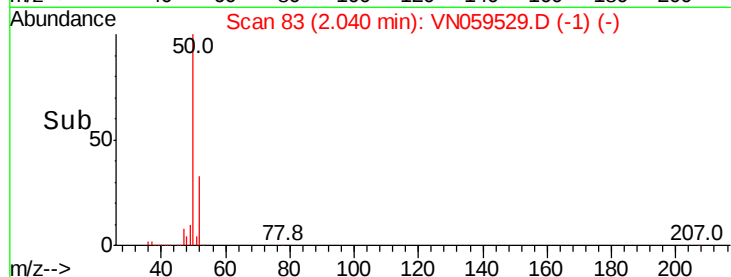
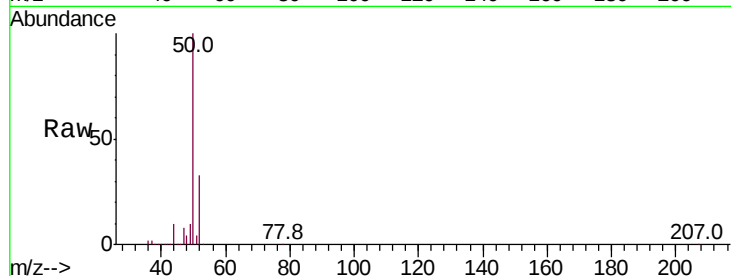
ClientSampleId :

Tot Ion: 50 Resp: 204295

Ion Ratio Lower Upper

50 100

52 32.8 26.2 39.4



#4

Vinyl Chloride

Concen: 74.750 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN059529.D

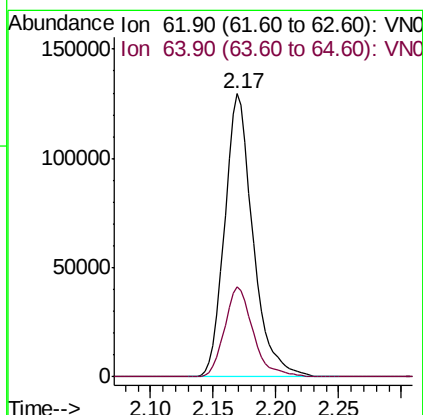
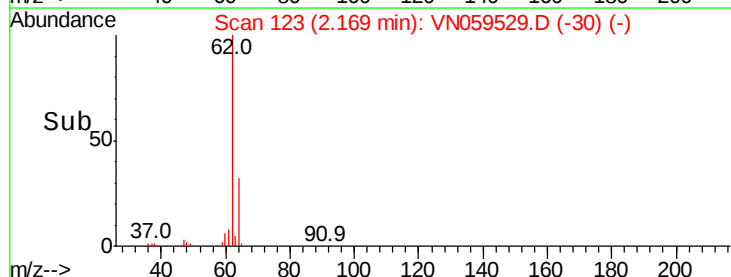
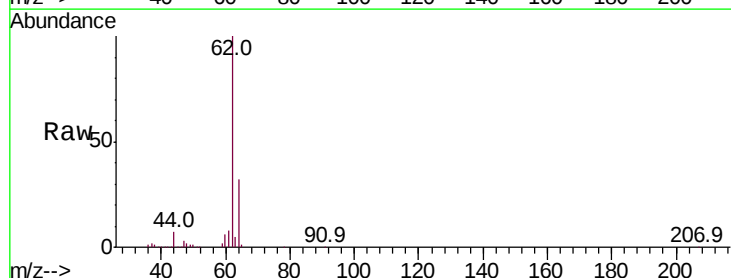
Acq: 9 Dec 2019 15:52

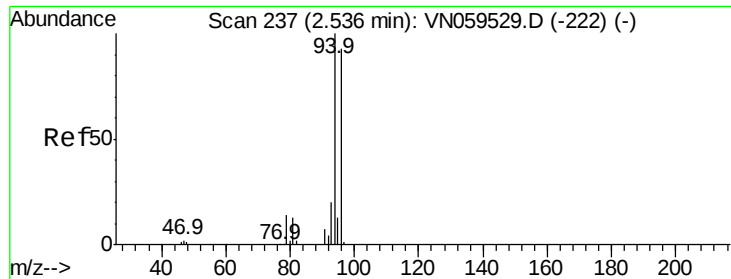
Tgt Ion: 62 Resp: 204395

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0





#5

Bromomethane

Concen: 71.706 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

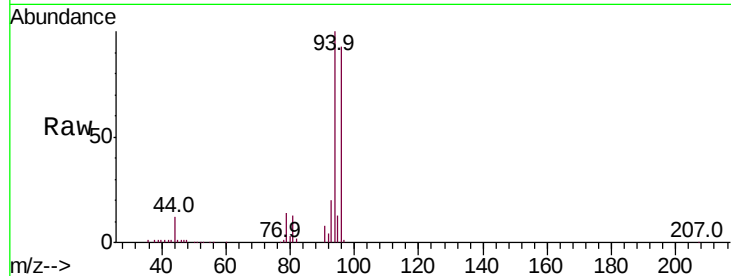
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 94 Resp: 120652

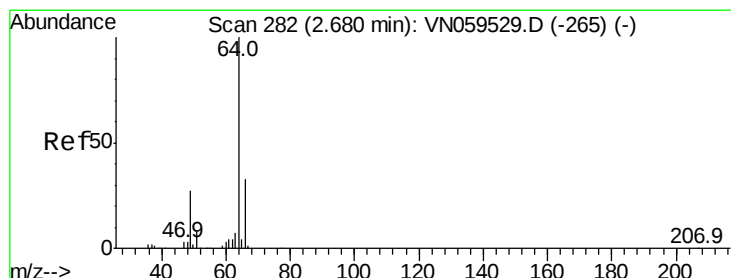
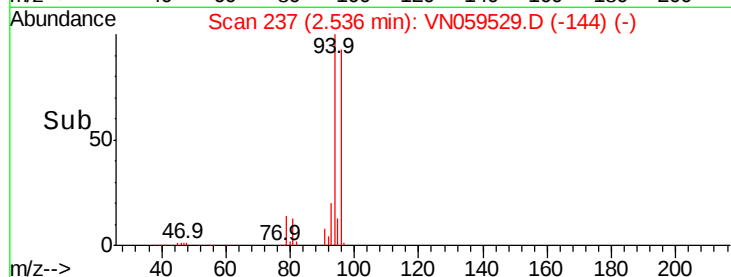
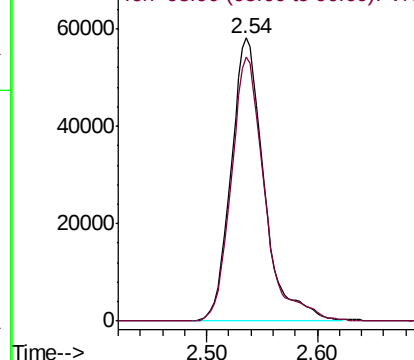
Ion Ratio Lower Upper

94 100

96 93.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 74.132 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN059529.D

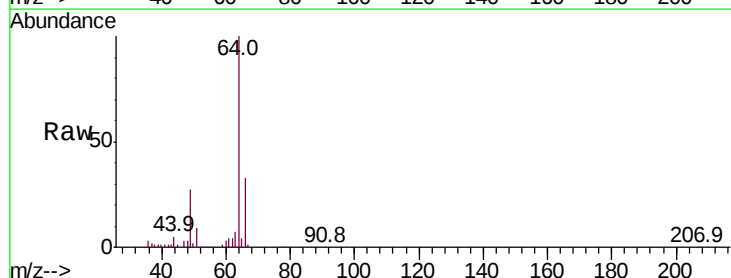
Acq: 9 Dec 2019 15:52

Tgt Ion: 64 Resp: 118421

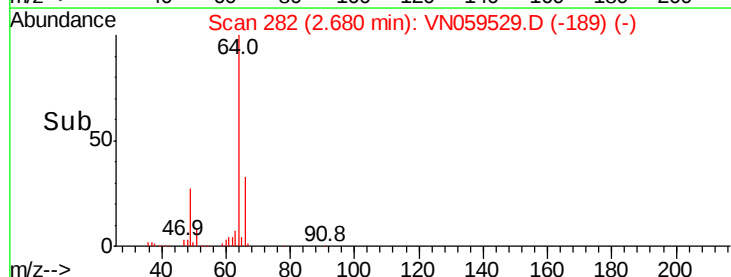
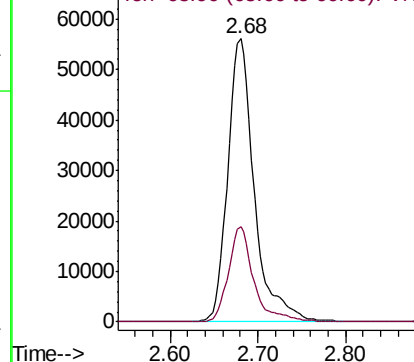
Ion Ratio Lower Upper

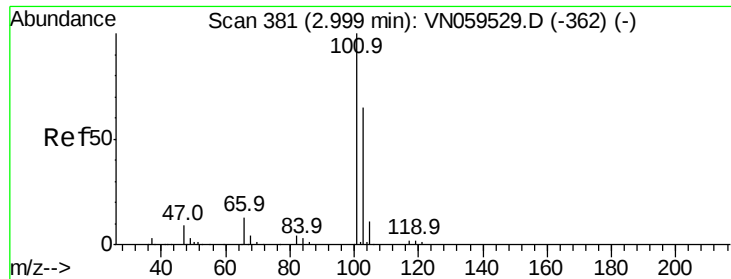
64 100

66 33.4 26.7 40.1



Abundance Ion 63.90 (63.60 to 64.60): VNO
Ion 65.90 (65.60 to 66.60): VNO



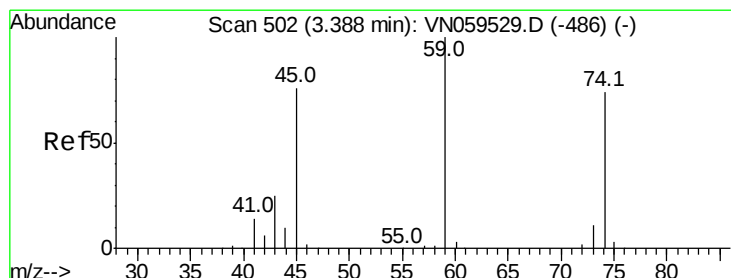
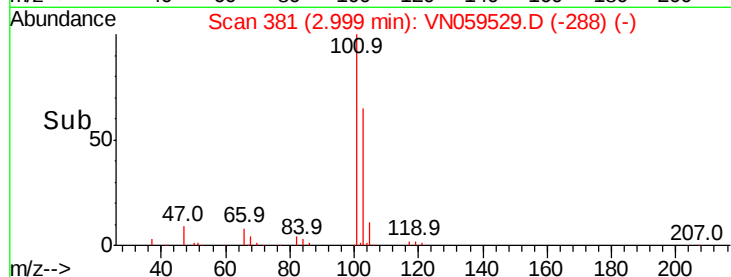
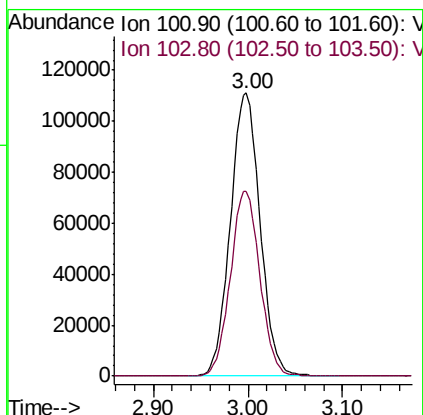
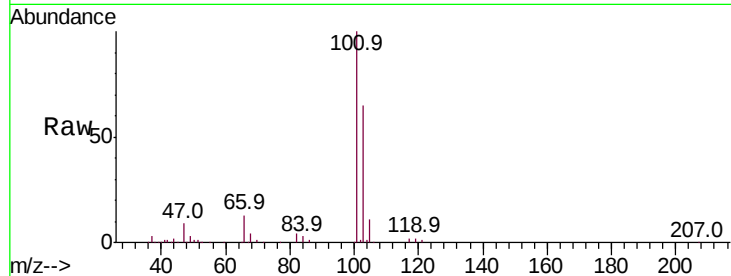


#7

Trichlorofluoromethane
 Concen: 74.408 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Instrument :
 MSVOA_N
 ClientSampled :

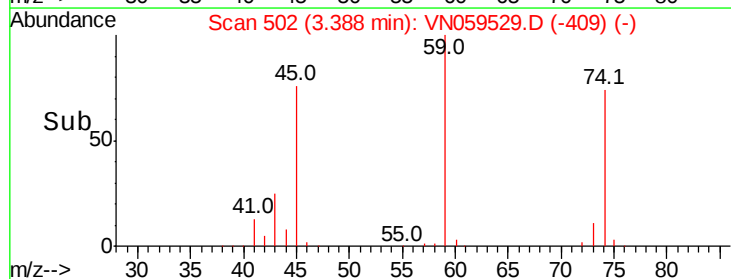
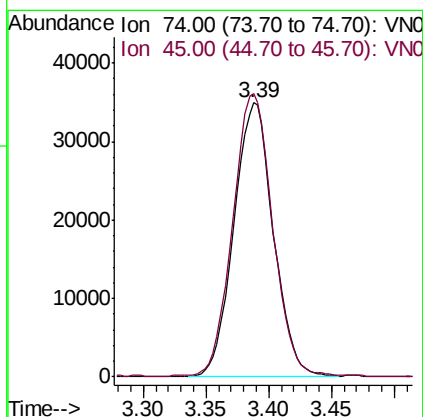
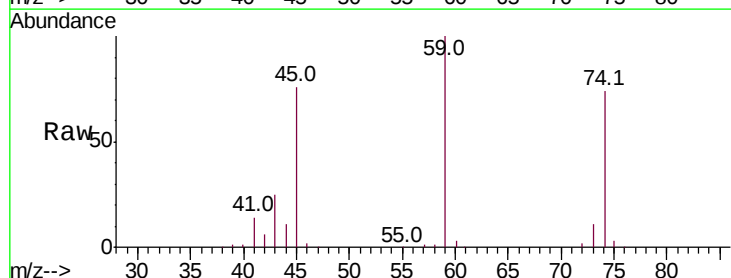
Tot Ion:101 Resp: 242658
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.2 78.4

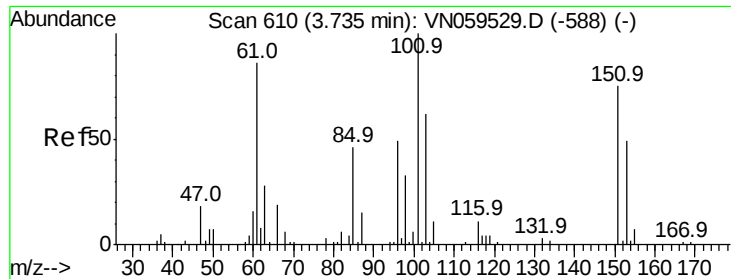


#8

Diethyl Ether
 Concen: 41.372 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Tgt Ion: 74 Resp: 76495
 Ion Ratio Lower Upper
 74 100
 45 105.3 52.6 157.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.077 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

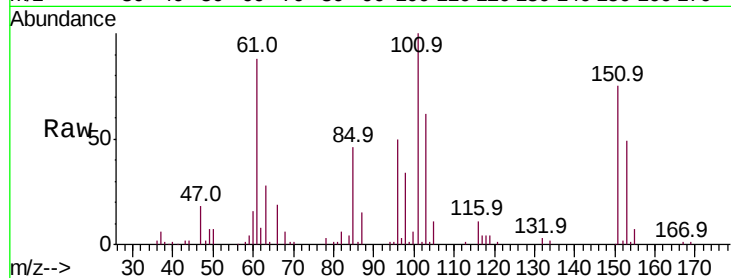
Tot Ion:101 Resp: 120739

Ion Ratio Lower Upper

101 100

85 45.7 36.6 54.8

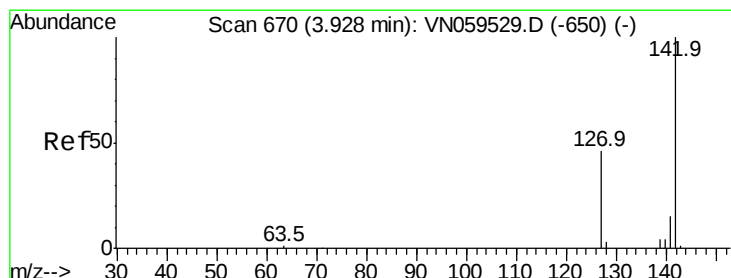
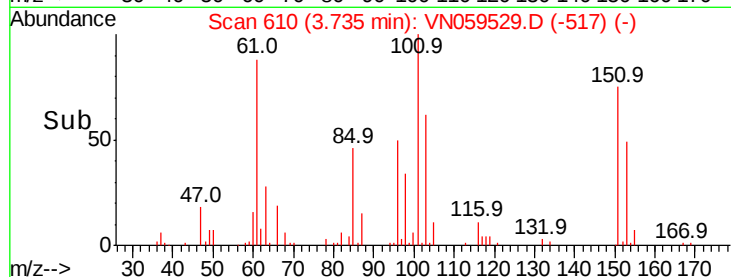
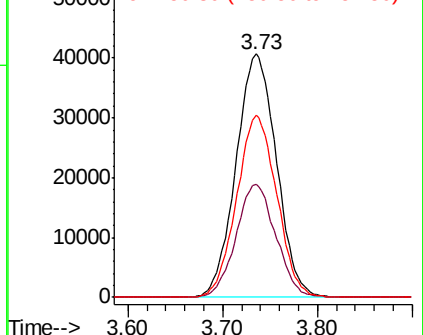
151 74.1 59.3 88.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 46.278 ug/l

RT: 3.93 min Scan# 670

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

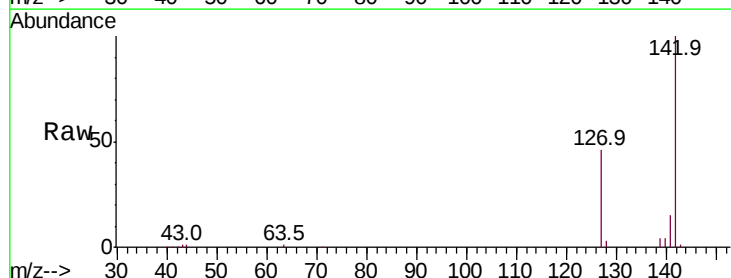
Tgt Ion:142 Resp: 162781

Ion Ratio Lower Upper

142 100

127 45.7 36.6 54.8

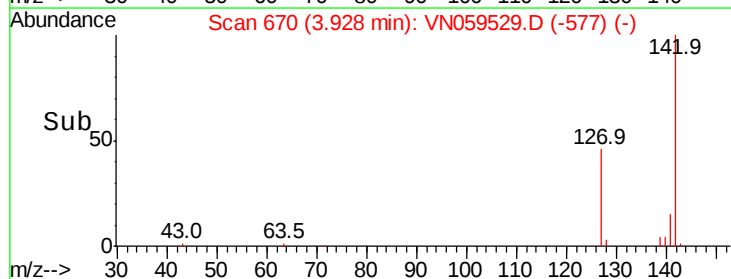
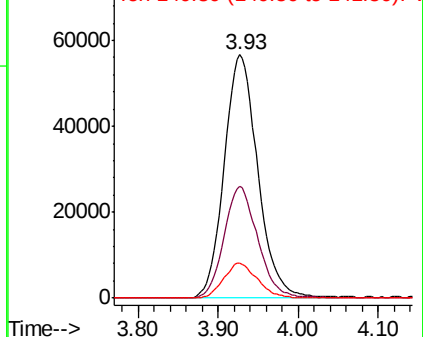
141 14.5 11.6 17.4

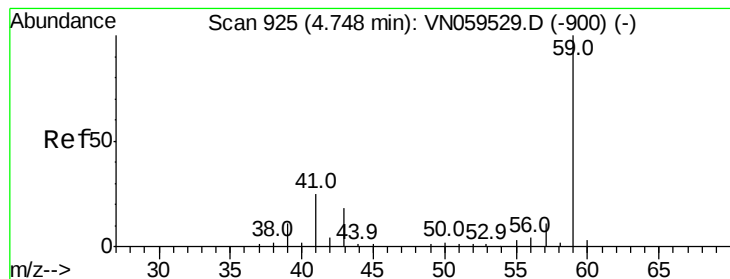


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



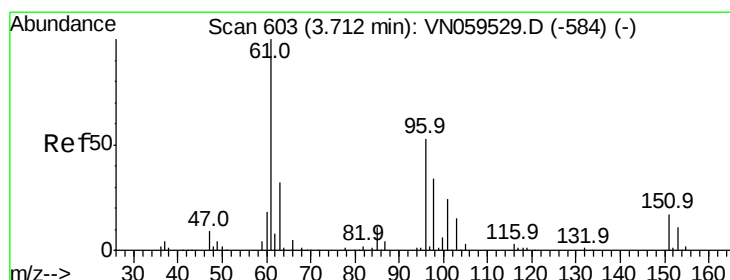
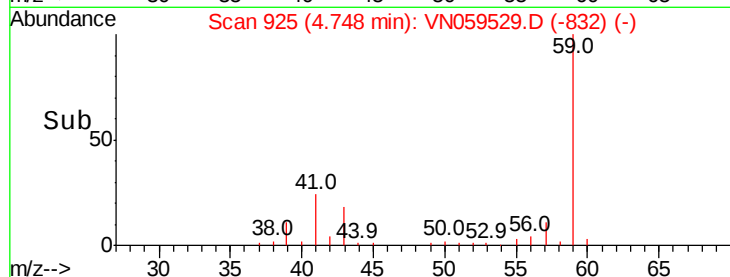
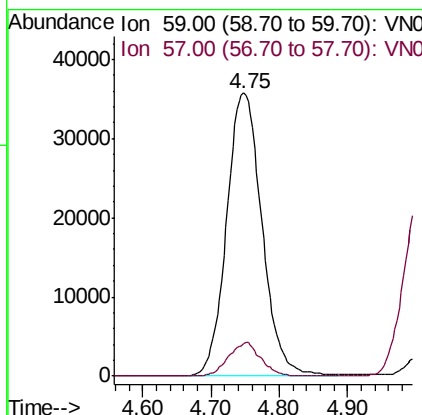
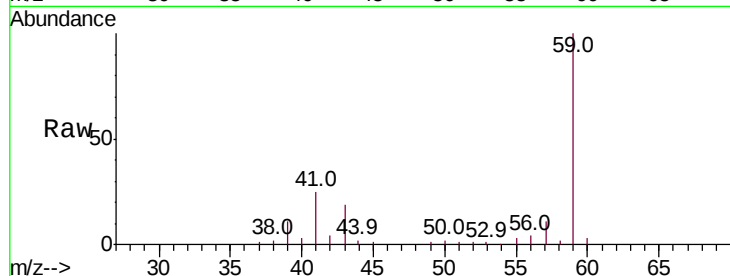


#11

Tert butyl alcohol
 Concen: 209.978 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Instrument :
 MSVOA_N
 ClientSampled :

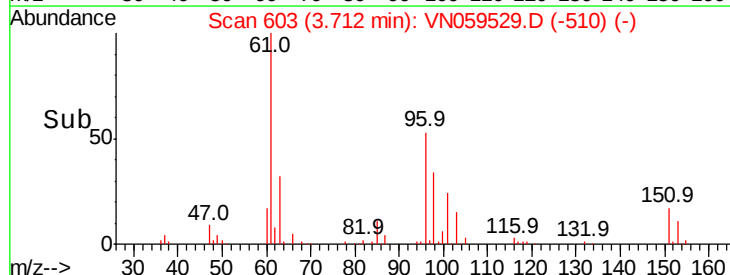
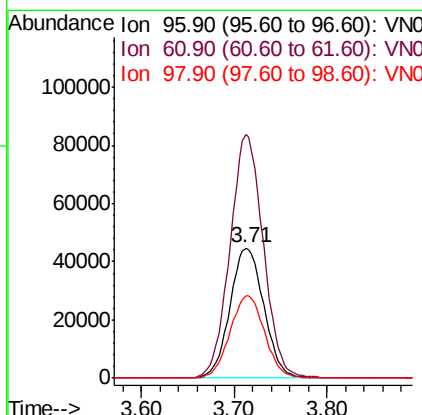
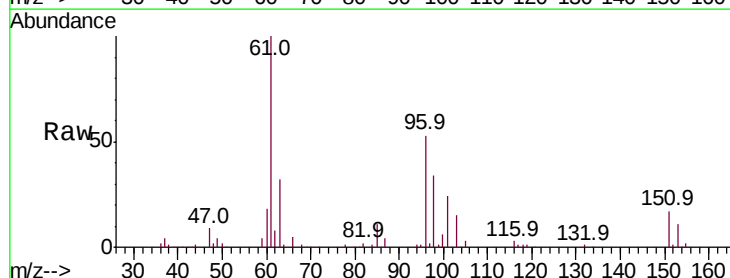
Tot Ion: 59 Resp: 128822
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.6 13.0

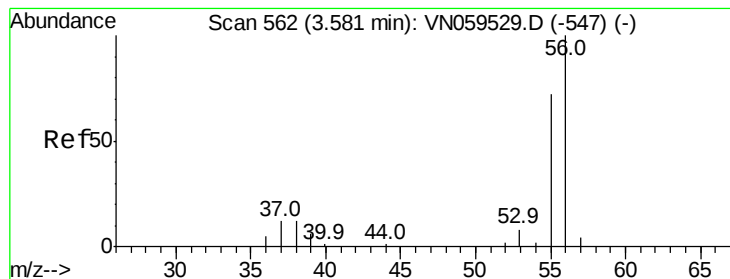


#12

1,1-Dichloroethene
 Concen: 41.777 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Tgt Ion: 96 Resp: 113618
 Ion Ratio Lower Upper
 96 100
 61 187.2 149.8 224.6
 98 63.2 50.6 75.8





#13

Acrolein

Concen: 95.513 ug/l

RT: 3.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

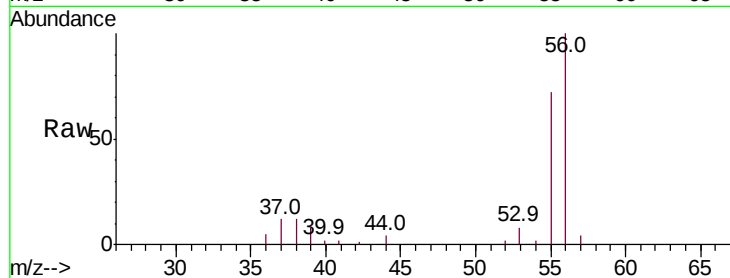
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 45072

Ion Ratio Lower Upper

56 100

55 71.1 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

15000

10000

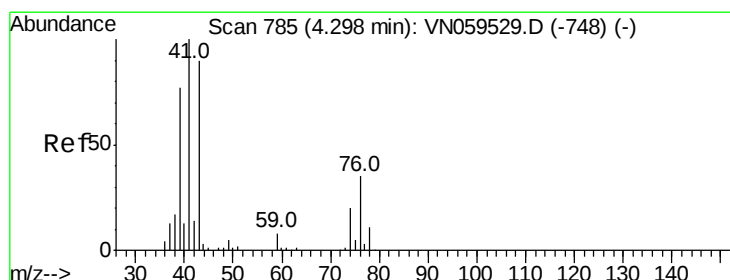
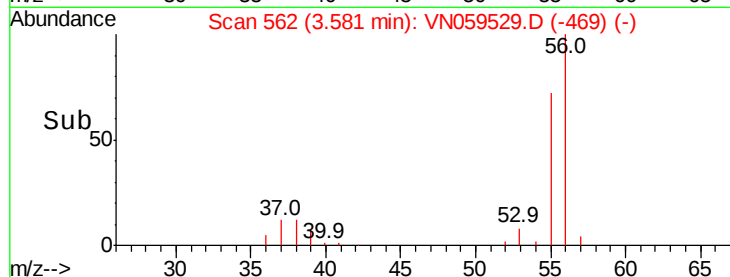
5000

0

Time-->

3.50 3.55 3.60 3.65 3.70

3.58



#14

Allyl chloride

Concen: 43.273 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

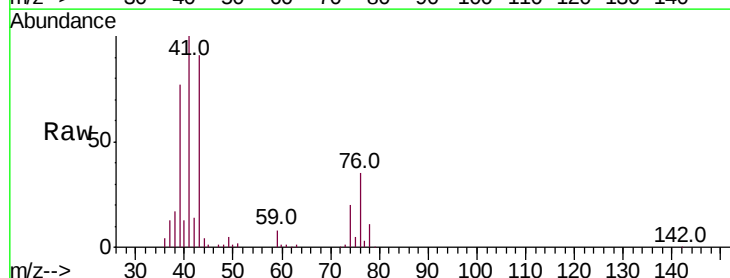
Tgt Ion: 41 Resp: 233728

Ion Ratio Lower Upper

41 100

39 70.9 56.7 85.1

76 31.9 25.5 38.3



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

100000

80000

60000

40000

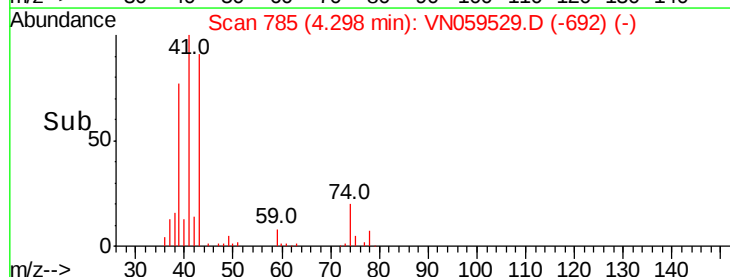
20000

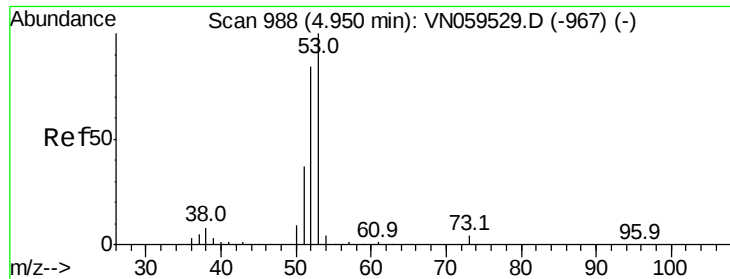
0

Time-->

4.10 4.20 4.30 4.40

4.30





#15

Acrylonitrile

Concen: 220.540 ug/l

RT: 4.95 min Scan# 988

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

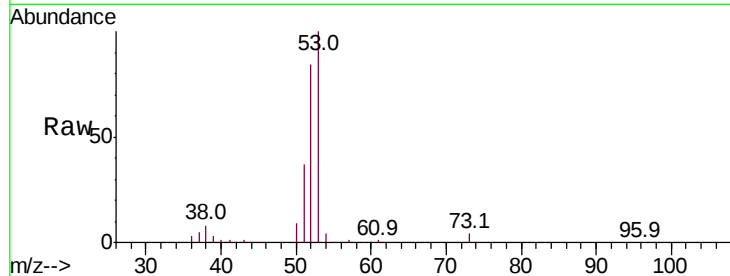
Tot Ion: 53 Resp: 366586

Ion Ratio Lower Upper

53 100

52 83.2 66.6 99.8

51 37.3 29.8 44.8



Abundance Ion 53.00 (52.70 to 53.70): VN059529.D (-967) (-)

Ion 52.00 (51.70 to 52.70): VN059529.D (-967) (-)

Ion 51.00 (50.70 to 51.70): VN059529.D (-967) (-)

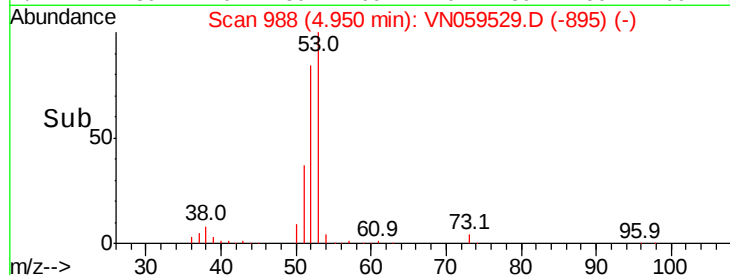
4.95

100000

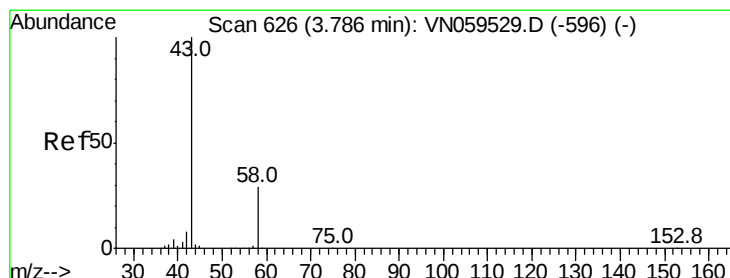
50000

0

Time-->



Time-->



#16

Acetone

Concen: 156.926 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.00 min

Lab File: VN059529.D

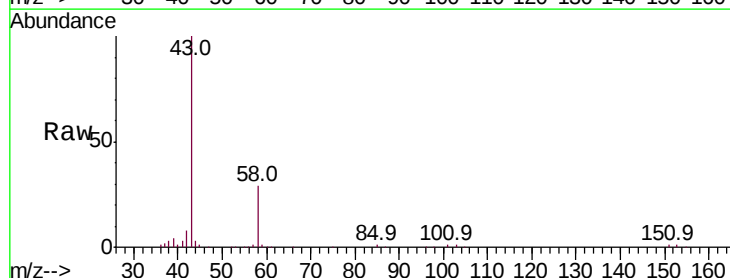
Acq: 9 Dec 2019 15:52

Tgt Ion: 43 Resp: 345869

Ion Ratio Lower Upper

43 100

58 28.7 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VN059529.D (-596) (-)

Ion 58.00 (57.70 to 58.70): VN059529.D (-596) (-)

3.79

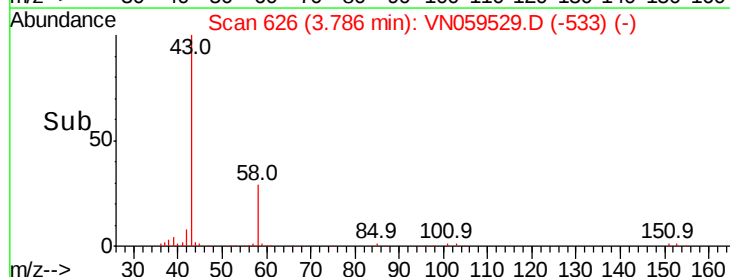
150000

100000

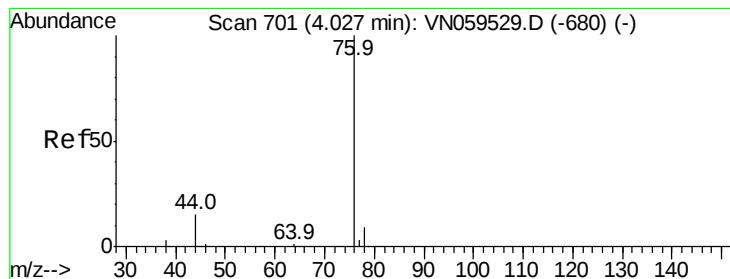
50000

0

Time-->



Time-->



#17

Carbon Disulfide

Concen: 41.445 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

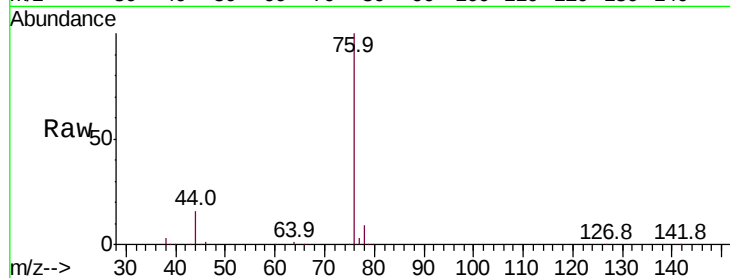
ClientSampleId :

Tot Ion: 76 Resp: 387484

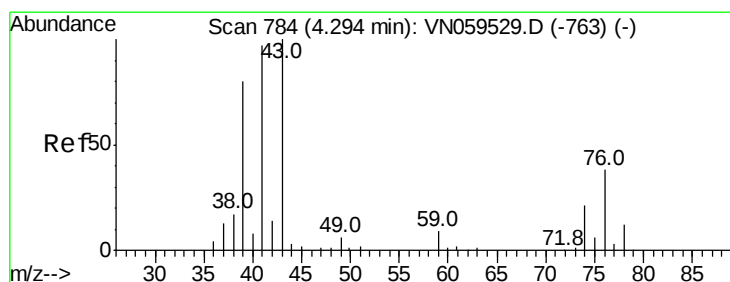
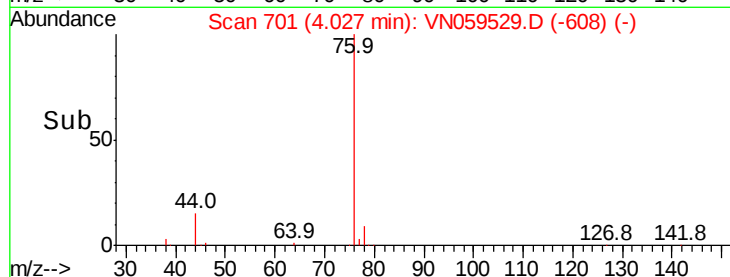
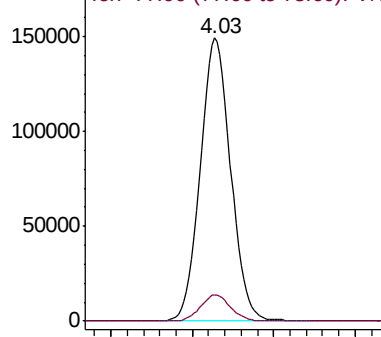
Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 43.487 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN059529.D

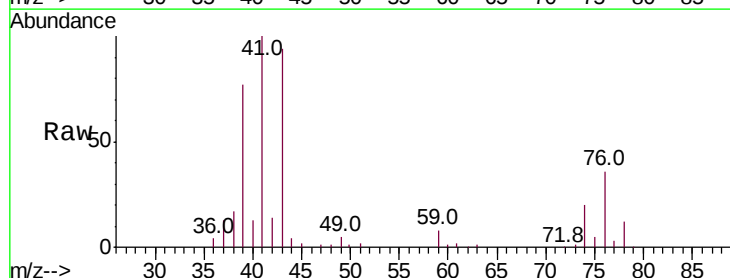
Acq: 9 Dec 2019 15:52

Tgt Ion: 43 Resp: 192176

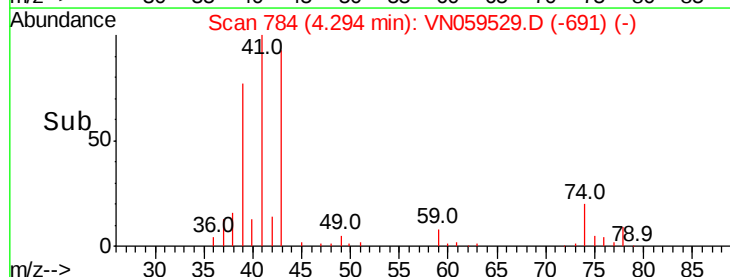
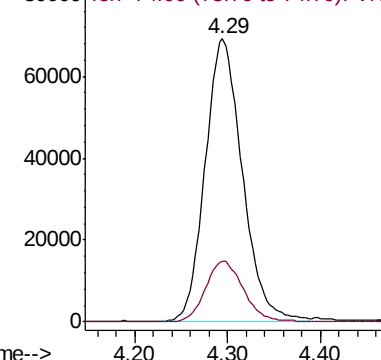
Ion Ratio Lower Upper

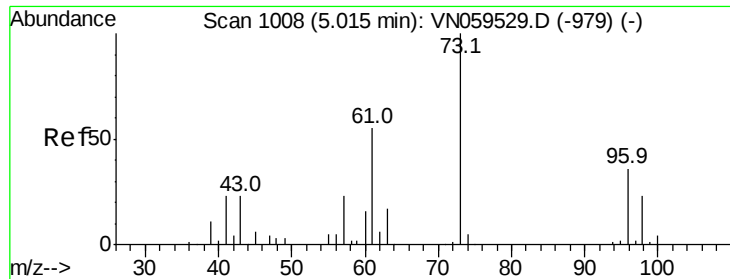
43 100

74 21.9 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO

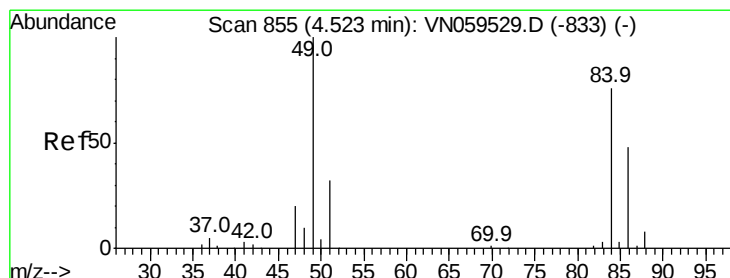
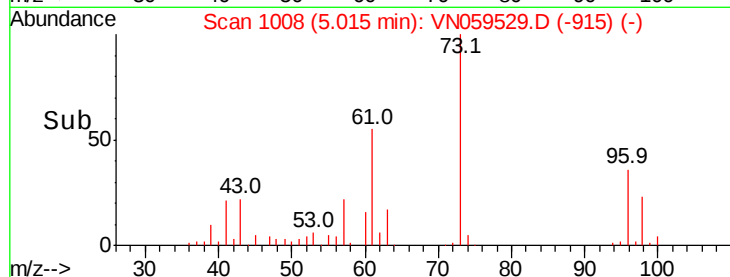
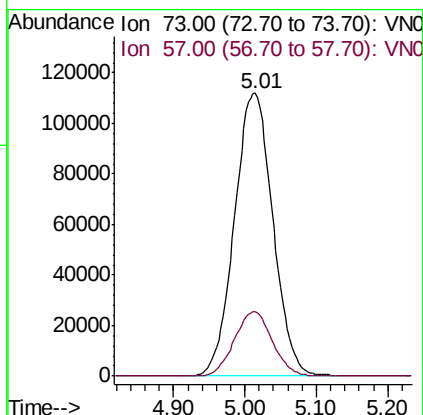
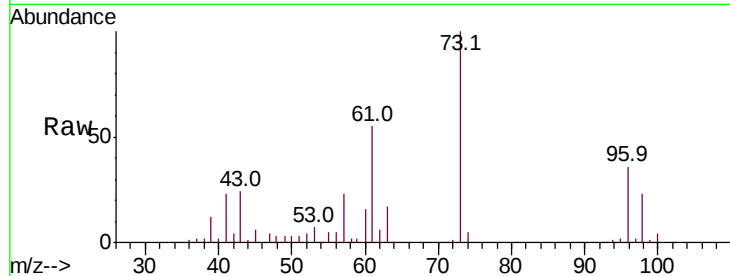




#19
Methvl tert-butvl Ether
Concen: 44.835 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

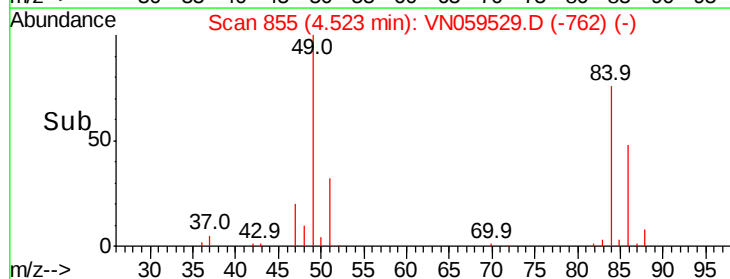
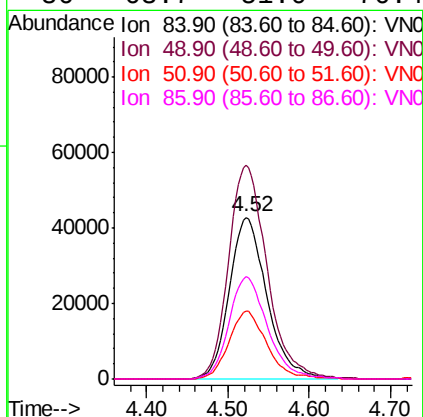
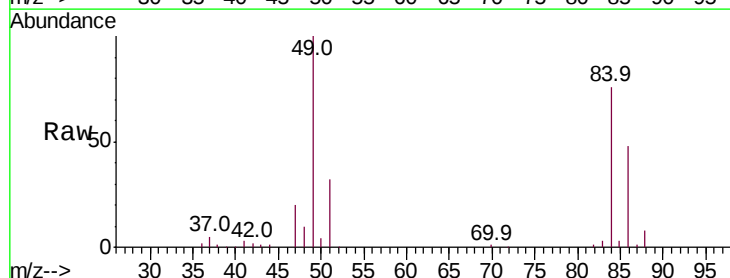
Instrument :
MSVOA_N
ClientSampleId :

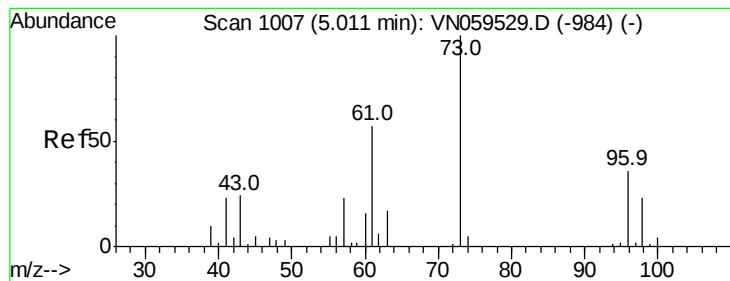
Tot Ion: 73 Resp: 419523
Ion Ratio Lower Upper
73 100
57 22.9 18.3 27.5



#20
Methylene Chloride
Concen: 39.801 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 84 Resp: 137817
Ion Ratio Lower Upper
84 100
49 132.3 105.8 158.8
51 42.1 33.7 50.5
86 63.7 51.0 76.4





#21

trans-1,2-Dichloroethene

Concen: 42.372 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :
MSVOA_N
ClientSampled :

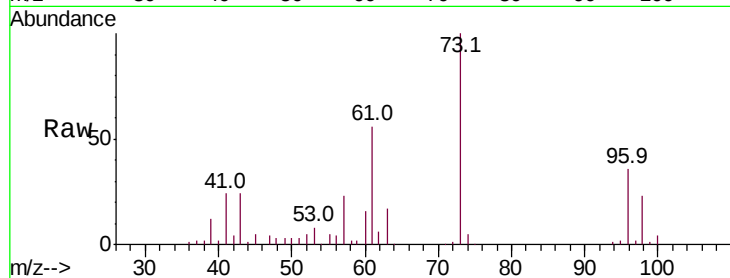
Tot Ion: 96 Resp: 129677

Ion Ratio Lower Upper

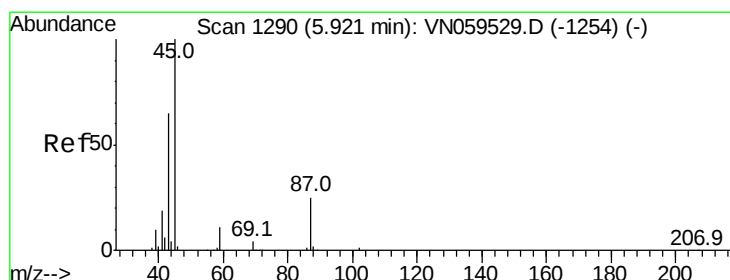
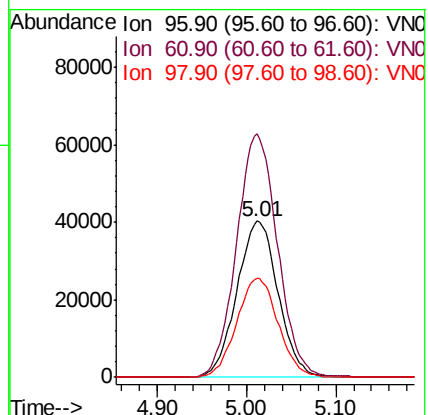
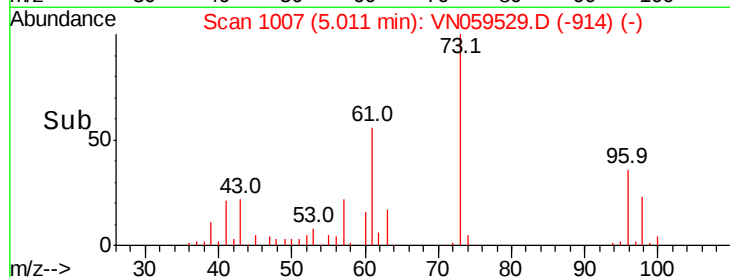
96 100

61 156.0 124.8 187.2

98 63.7 51.0 76.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 45.771 ug/l

RT: 5.92 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Tgt Ion: 45 Resp: 460974

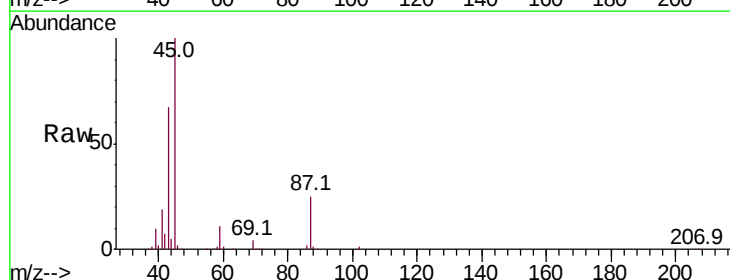
Ion Ratio Lower Upper

45 100

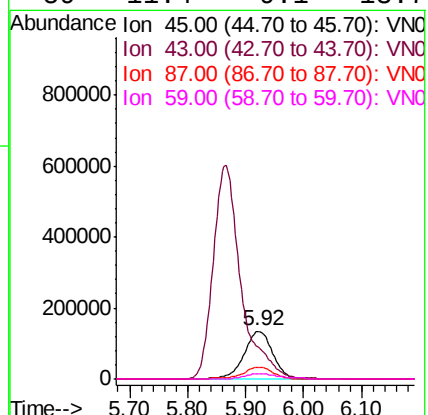
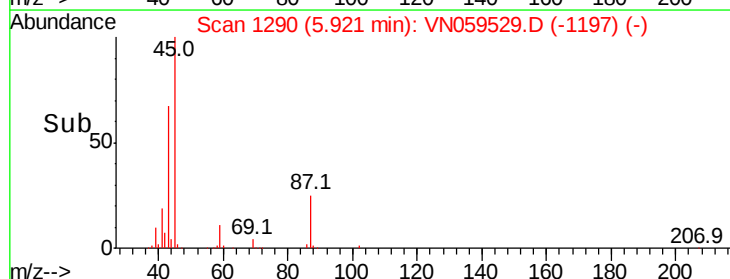
43 66.0 52.8 79.2

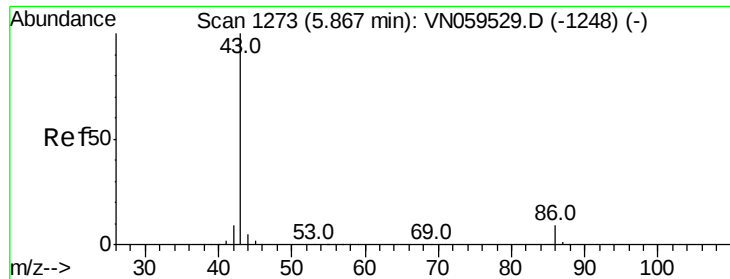
87 25.3 20.2 30.4

59 11.4 9.1 13.7



Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 246.752 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

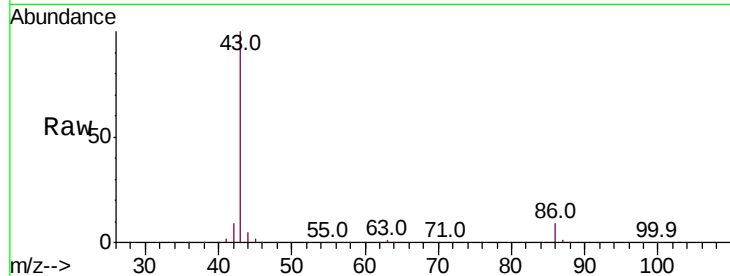
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 2003467

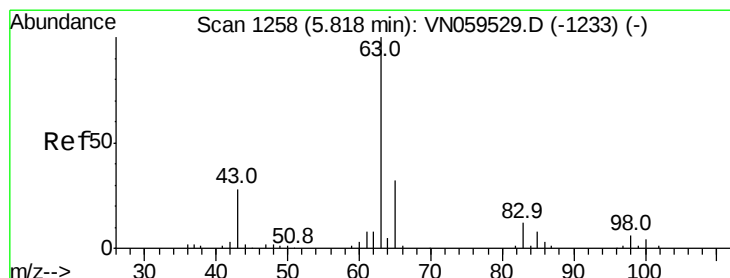
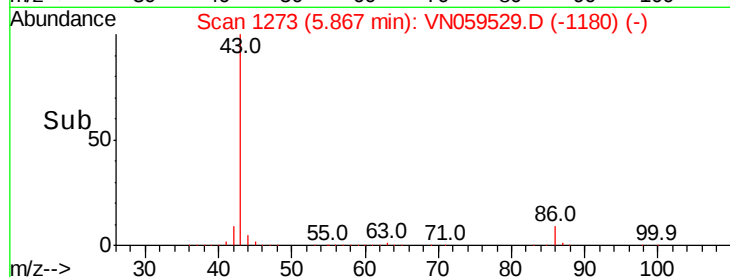
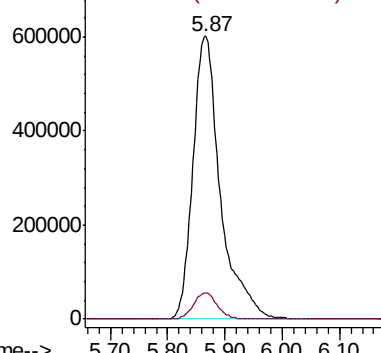
Ion Ratio Lower Upper

43 100

86 9.3 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 44.618 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

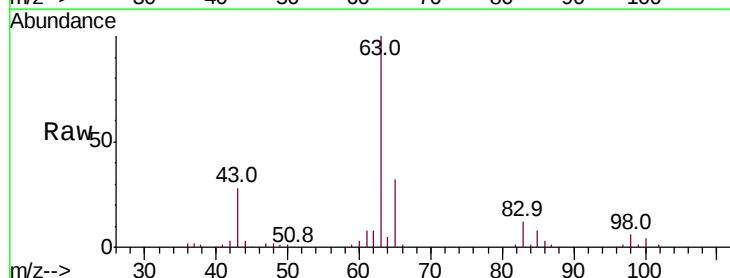
Tgt Ion: 63 Resp: 254883

Ion Ratio Lower Upper

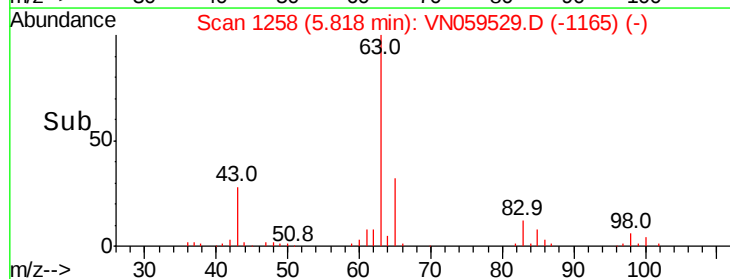
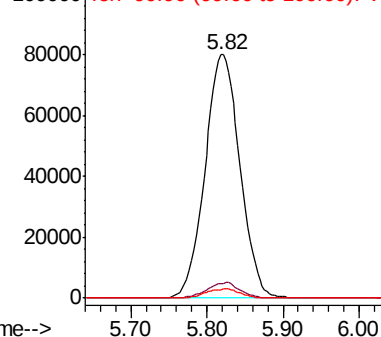
63 100

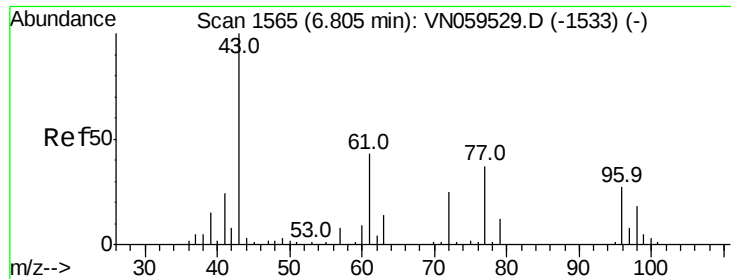
98 6.0 3.0 9.0

100 3.5 1.8 5.3



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 97.90 (97.60 to 98.60): VNO
Ion 99.90 (99.60 to 100.60): VNO

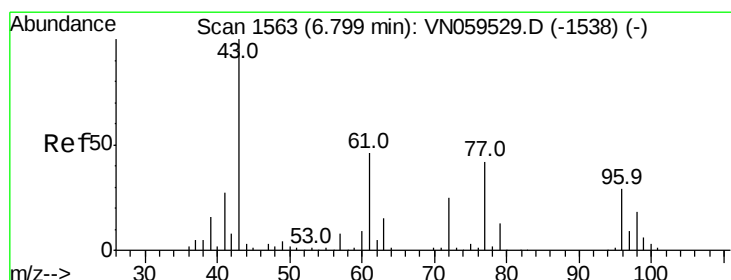
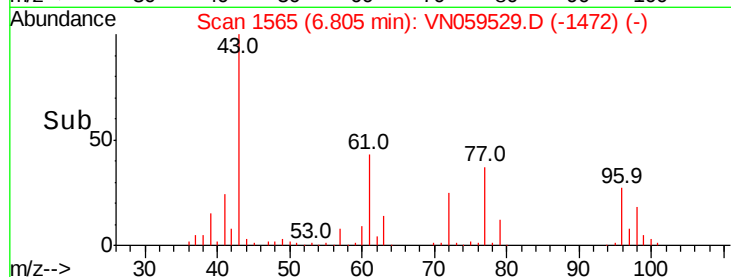
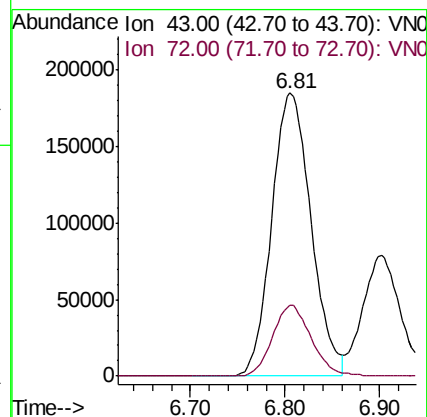
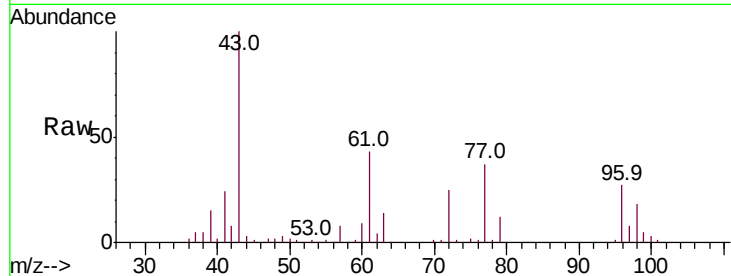




#25
2-Butanone
Concen: 213.736 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

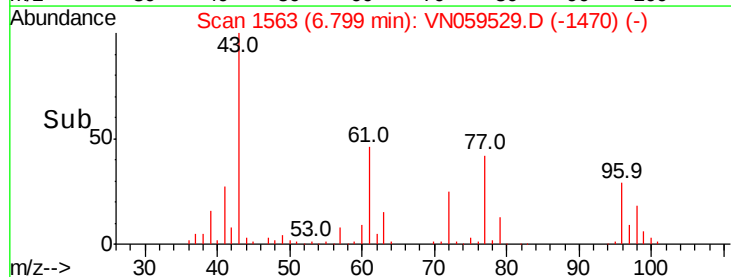
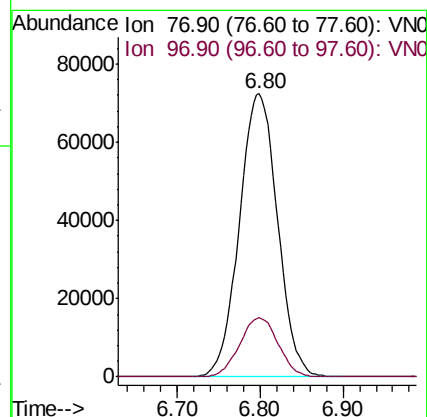
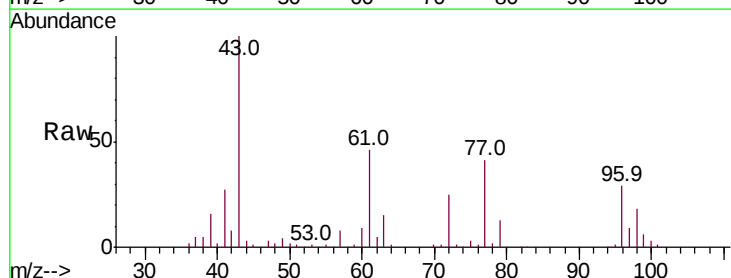
Instrument :
MSVOA_N
ClientSampled :

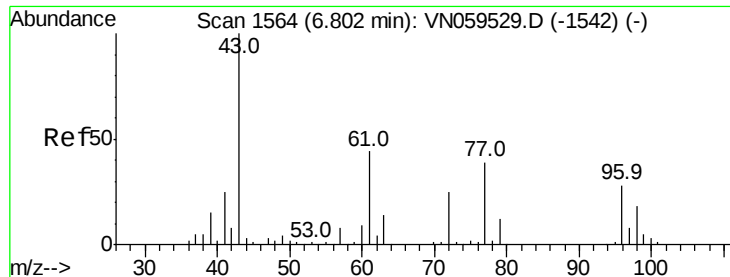
Tot Ion: 43 Resp: 532579
Ion Ratio Lower Upper
43 100
72 24.9 19.9 29.9



#26
2,2-Dichloropropane
Concen: 46.352 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 77 Resp: 231211
Ion Ratio Lower Upper
77 100
97 21.1 10.5 31.6

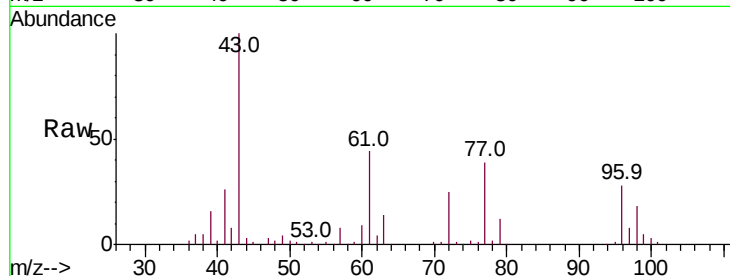




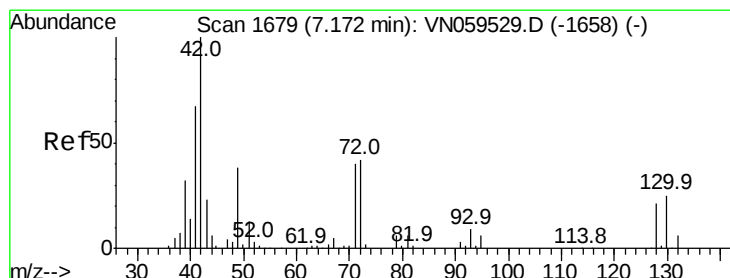
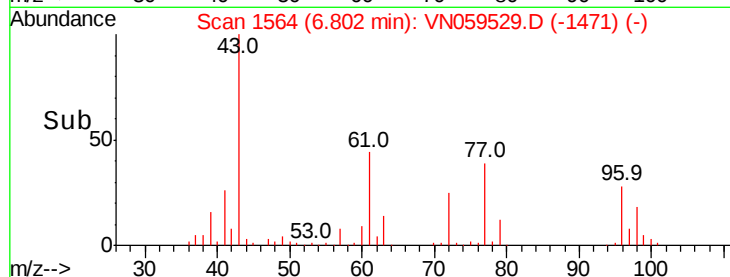
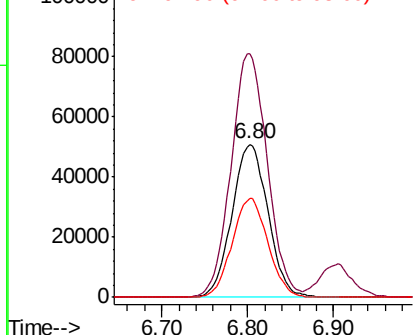
#27
 cis-1,2-Dichloroethene
 Concen: 43.535 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 96 Resp: 148276
 Ion Ratio Lower Upper
 96 100
 61 160.0 0.0 320.0
 98 64.3 0.0 128.6

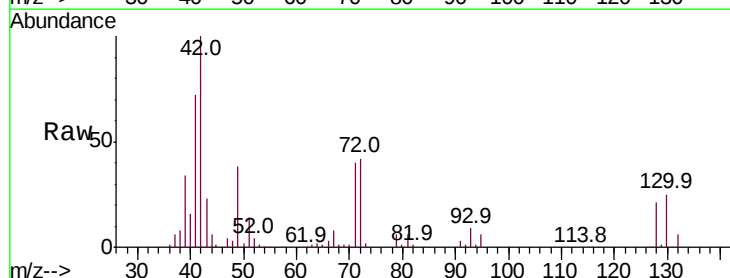


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

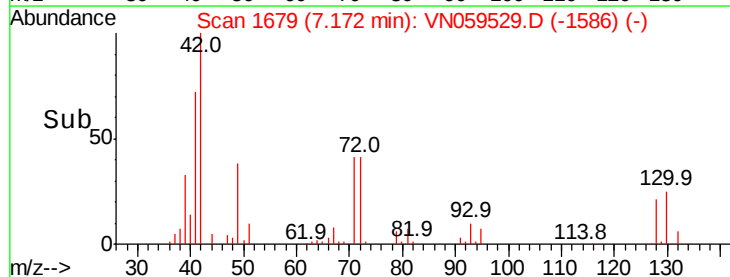
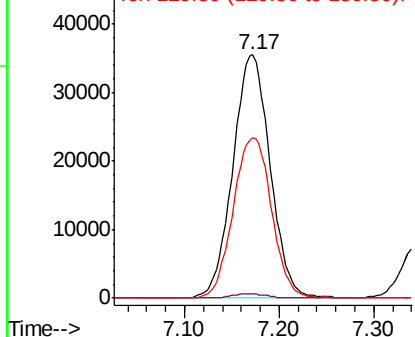


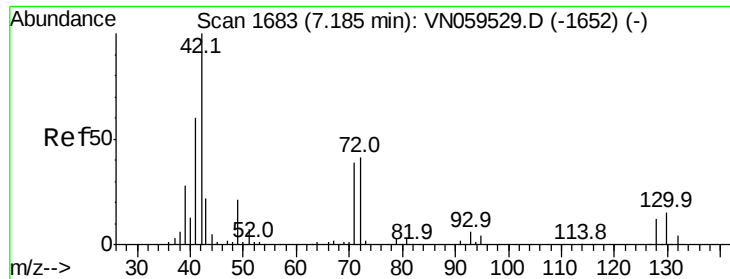
#28
 Bromochloromethane
 Concen: 53.416 ug/l
 RT: 7.17 min Scan# 1679
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Tgt Ion: 49 Resp: 97229
 Ion Ratio Lower Upper
 49 100
 129 1.5 0.0 3.0
 130 67.7 54.2 81.2



Abundance Ion 48.90 (48.60 to 49.60): VN0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

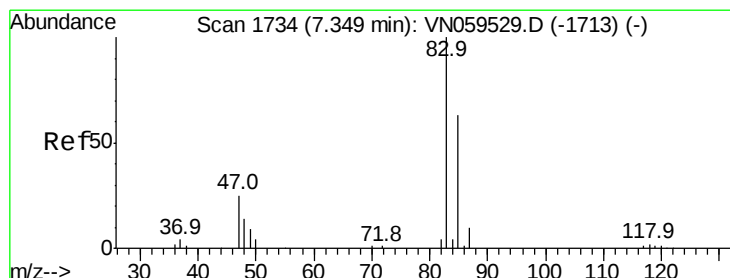
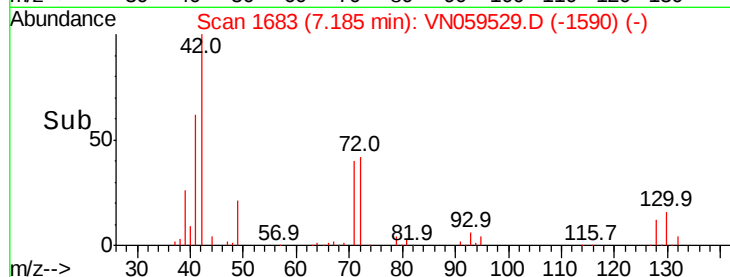
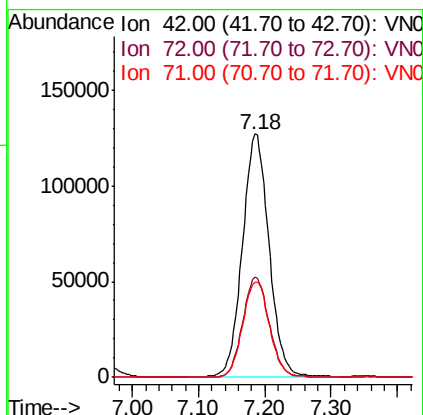
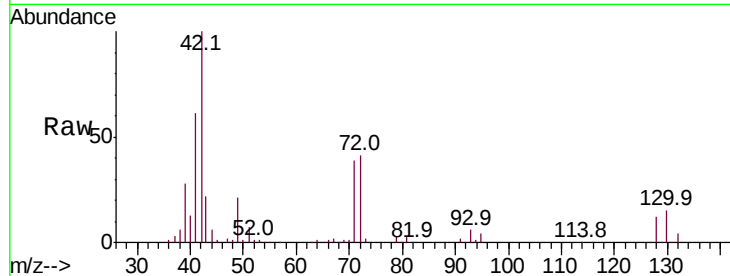




#29
Tetrahydrofuran
Concen: 225.925 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

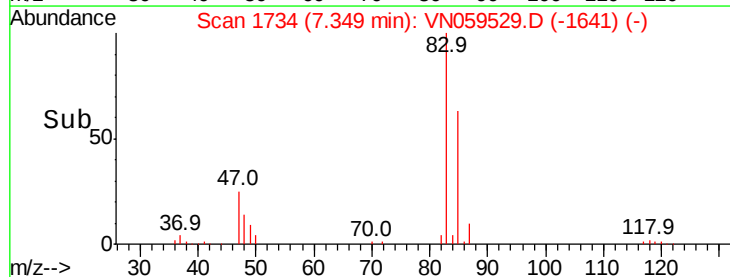
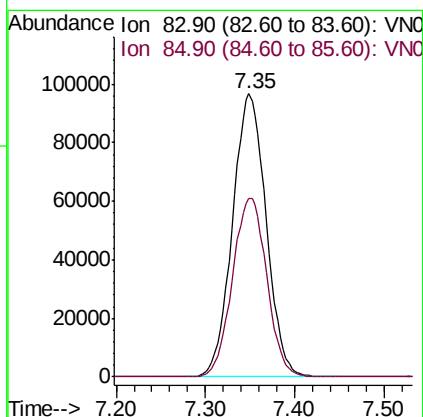
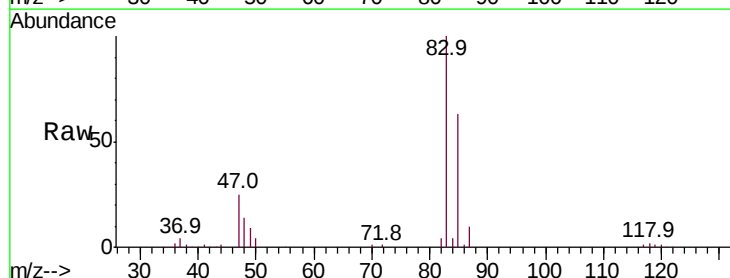
Instrument :
MSVOA_N
ClientSampled :

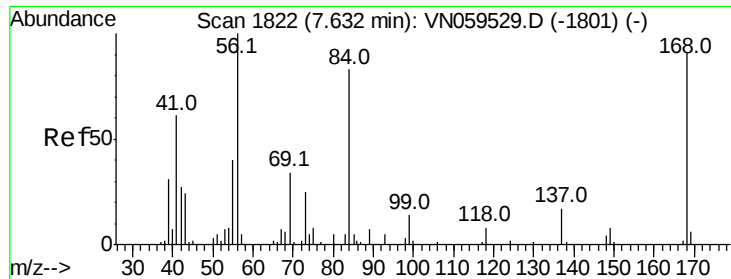
Tot Ion: 42 Resp: 355681
Ion Ratio Lower Upper
42 100
72 40.9 32.7 49.1
71 39.3 31.4 47.2



#30
Chloroform
Concen: 45.432 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 83 Resp: 252533
Ion Ratio Lower Upper
83 100
85 63.2 50.6 75.8

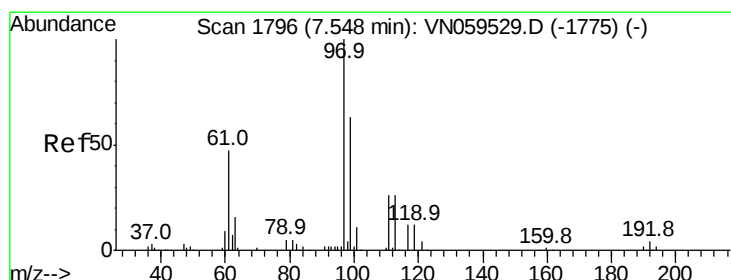
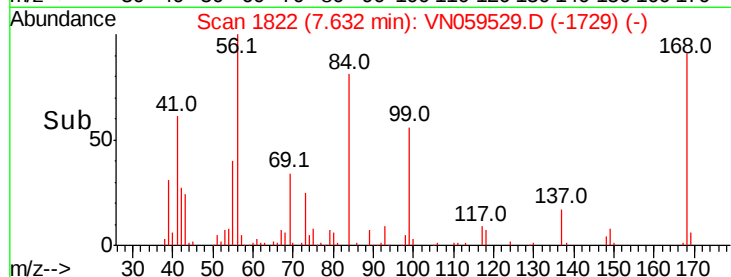
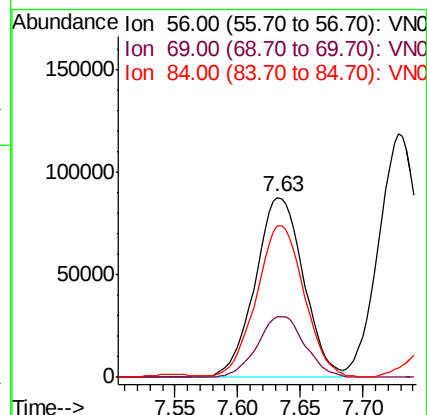
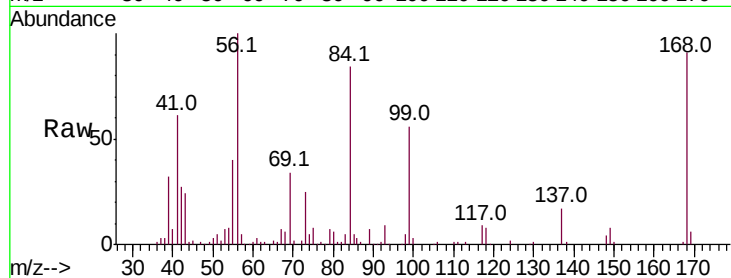




#31
Cyclohexane
Concen: 42.897 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

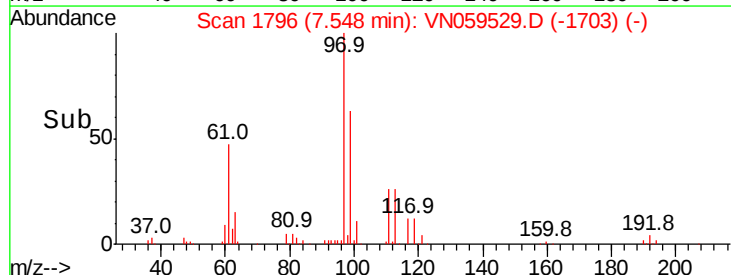
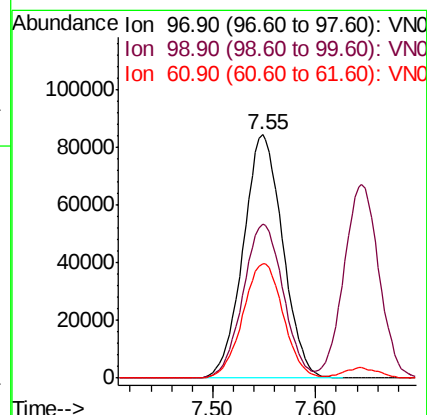
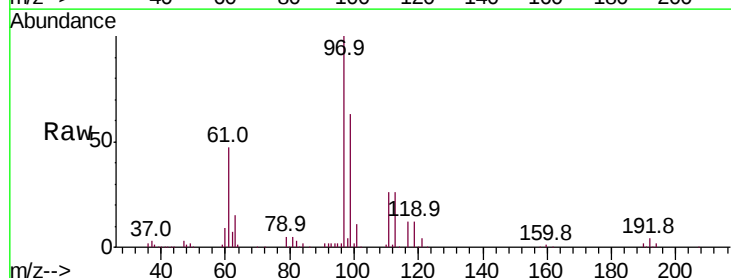
Instrument :
MSVOA_N
ClientSampled :

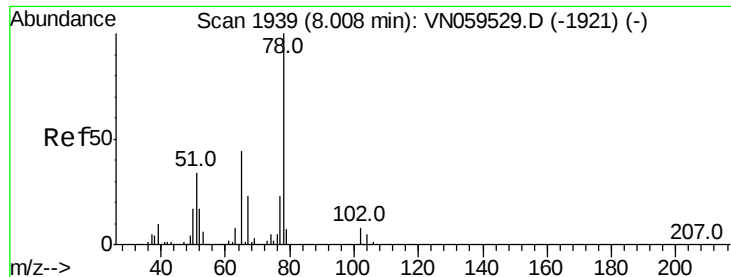
Tot Ion	Ratio	Lower	Upper
56	100		
69	33.6	26.9	40.3
84	83.1	66.5	99.7



#32
1,1,1-Trichloroethane
Concen: 46.400 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	48.1	38.5	57.7





#33

1,2-Dichloroethane-d4

Concen: 49.952 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

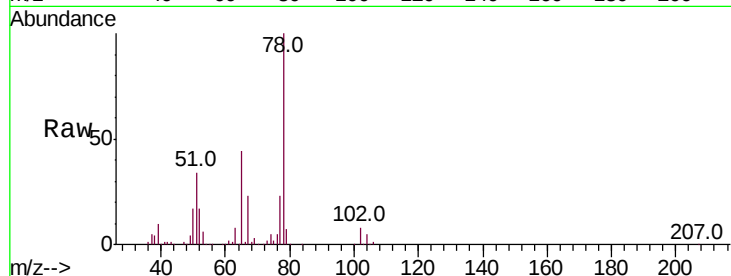
ClientSampleId :

Tot Ion: 65 Resp: 167421

Ion Ratio Lower Upper

65 100

67 51.8 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

80000

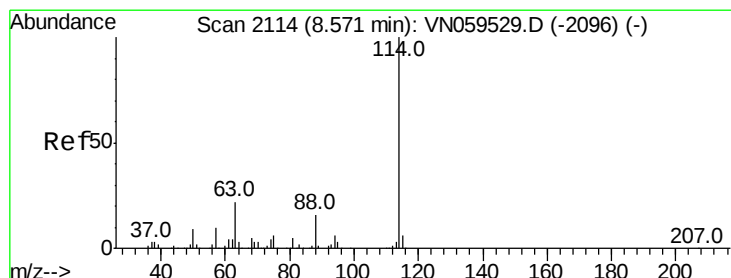
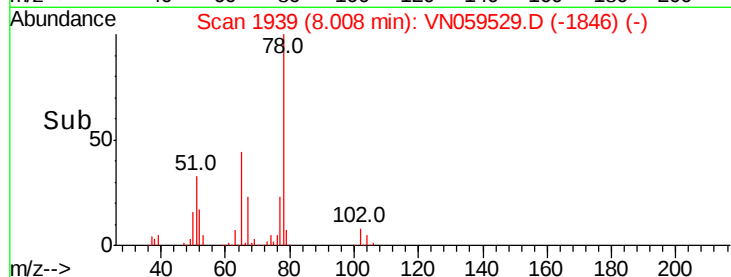
60000

40000

20000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

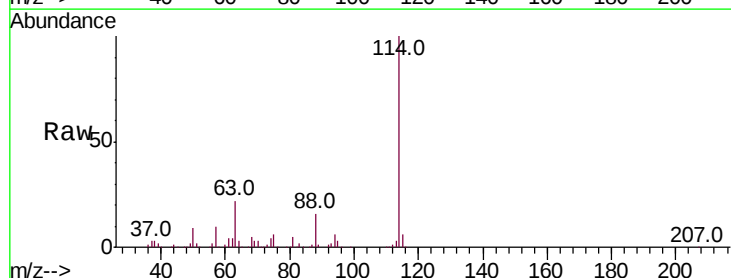
Tgt Ion: 114 Resp: 428099

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.0

88 16.1 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

250000

200000

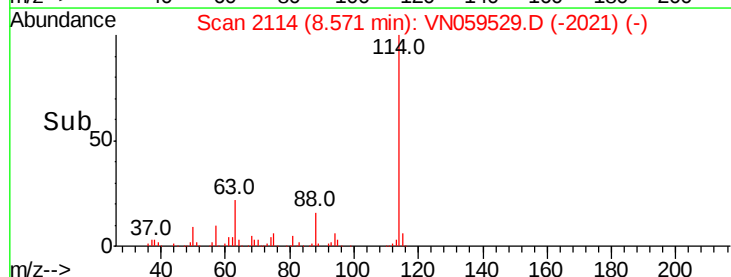
150000

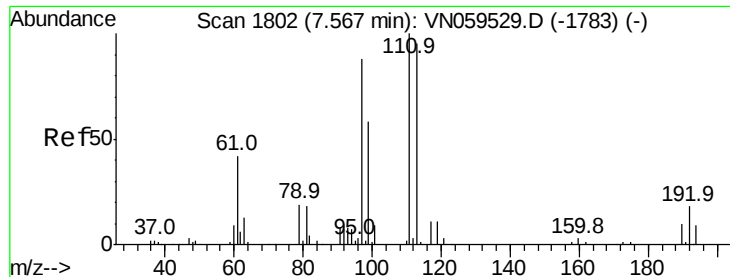
100000

50000

0

Time--> 8.50 8.60 8.70

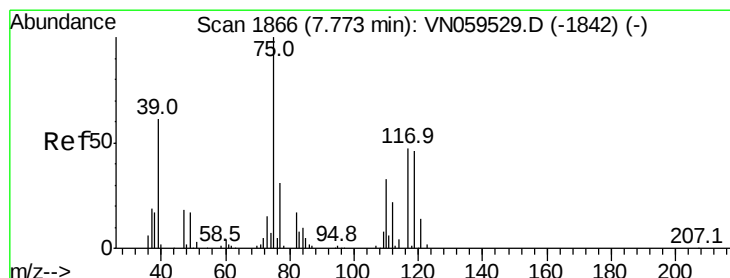
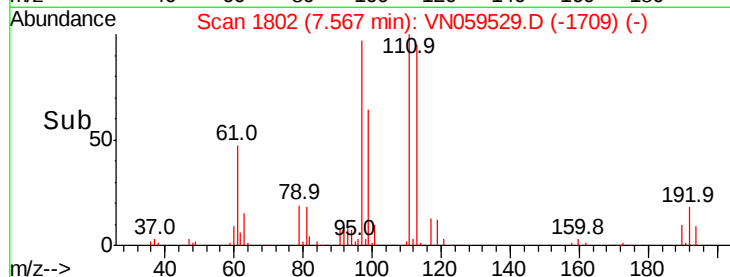
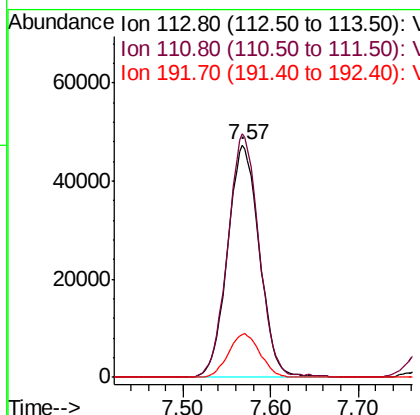
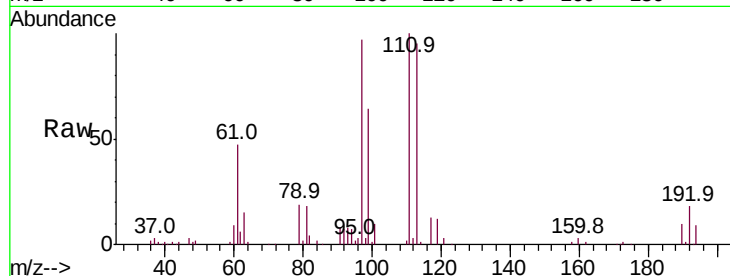




#35
Dibromofluoromethane
Concen: 45.928 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

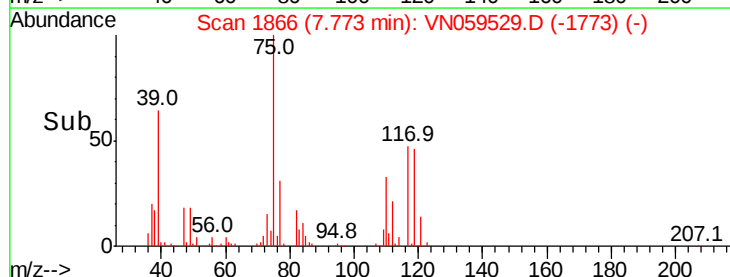
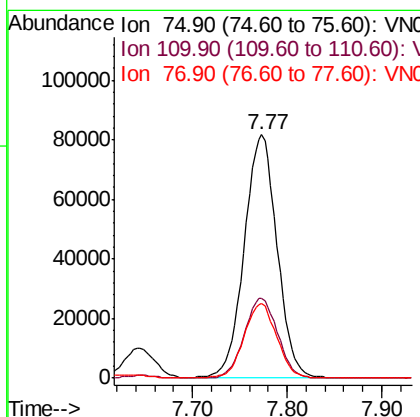
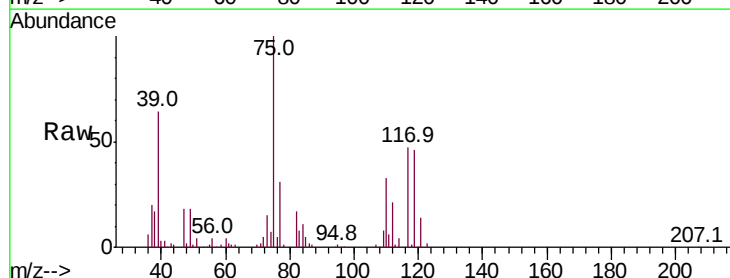
Instrument :
MSVOA_N
ClientSampleId :

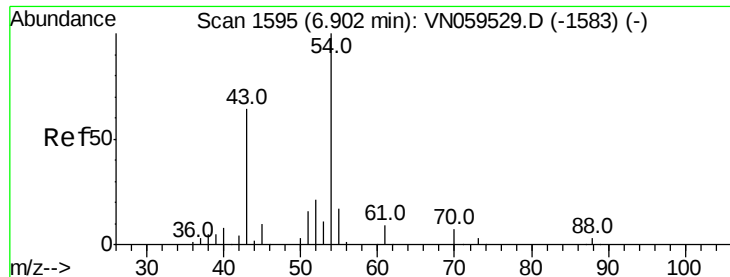
Tot Ion:113 Resp: 119531
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.4
192 18.5 14.8 22.2



#36
1,1-Dichloropropene
Concen: 44.990 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 75 Resp: 196292
Ion Ratio Lower Upper
75 100
110 33.3 16.7 50.0
77 30.8 24.6 37.0

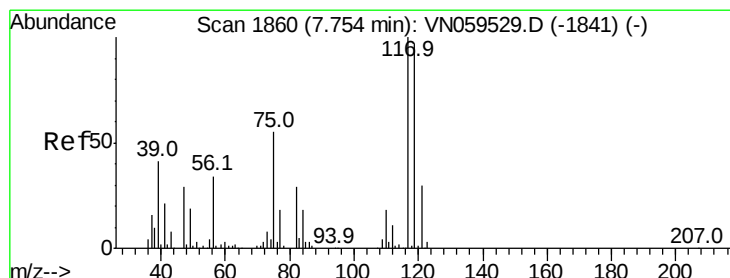
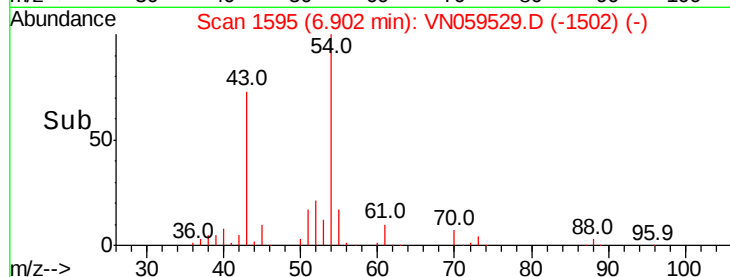
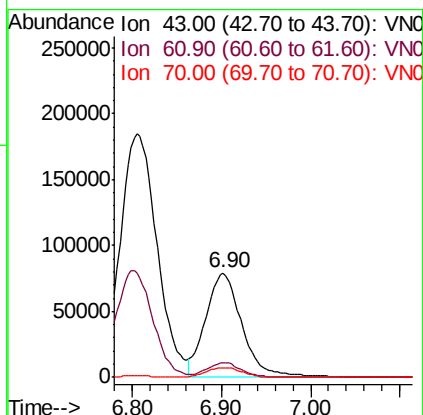
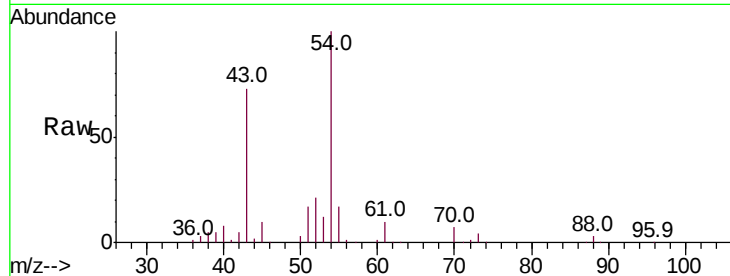




#37
Ethyl Acetate
Concen: 45.250 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

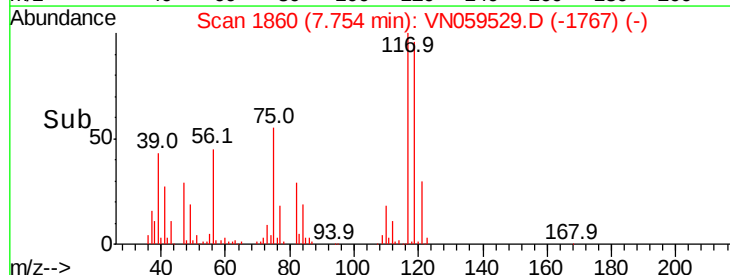
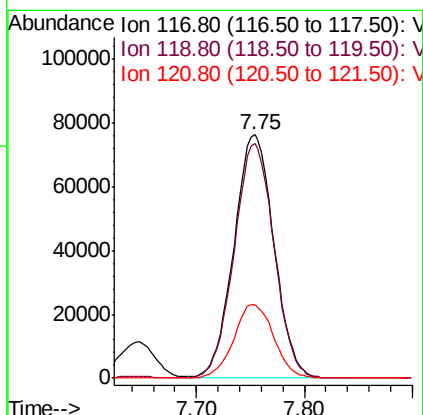
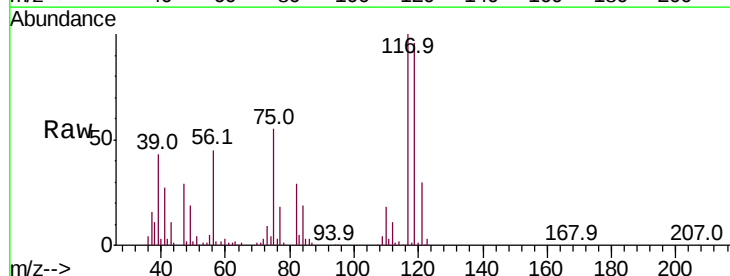
Instrument :
MSVOA_N
ClientSampled :

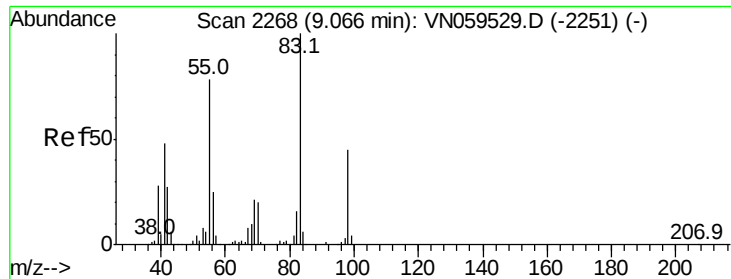
Tot Ion: 43 Resp: 220596
Ion Ratio Lower Upper
43 100
61 13.8 11.0 16.6
70 9.6 7.7 11.5



#38
Carbon Tetrachloride
Concen: 46.869 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 117 Resp: 197603
Ion Ratio Lower Upper
117 100
119 96.2 77.0 115.4
121 30.1 24.1 36.1

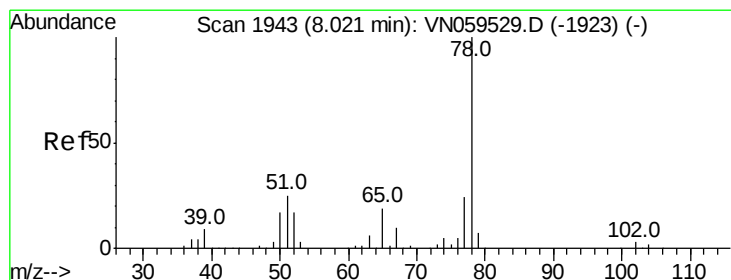
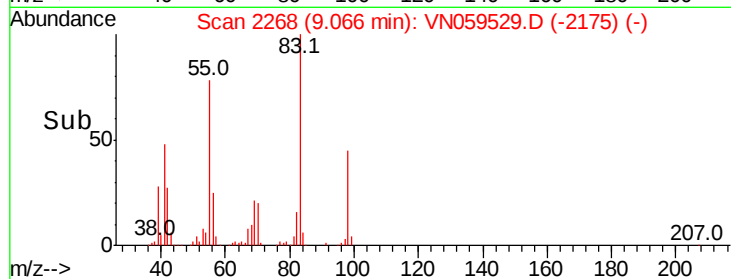
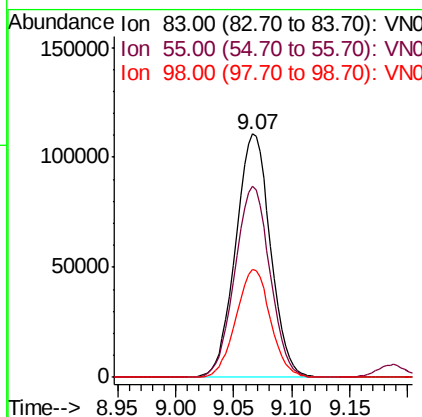
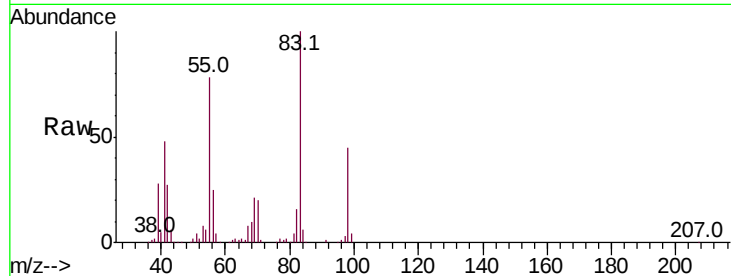




#39
Methvlcvclohexane
Concen: 44.239 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

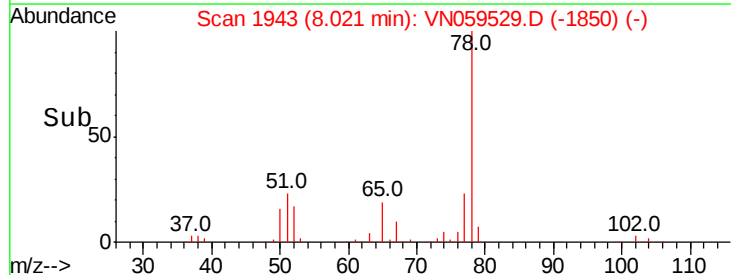
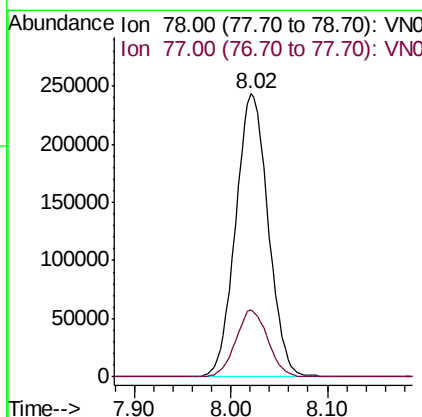
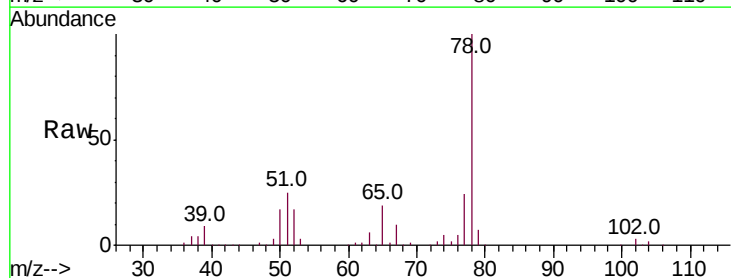
Instrument :
MSVOA_N
ClientSampled :

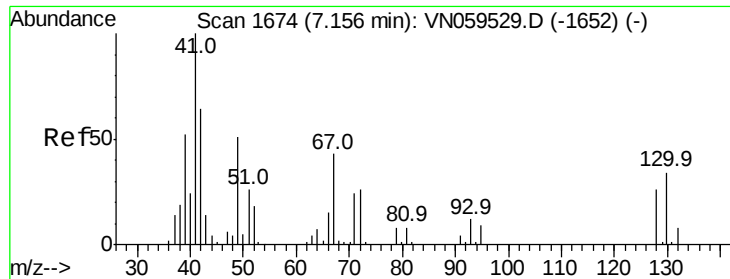
Tot Ion: 83 Resp: 230417
Ion Ratio Lower Upper
83 100
55 78.4 62.7 94.1
98 44.6 35.7 53.5



#40
Benzene
Concen: 44.770 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 78 Resp: 569536
Ion Ratio Lower Upper
78 100
77 23.5 18.8 28.2

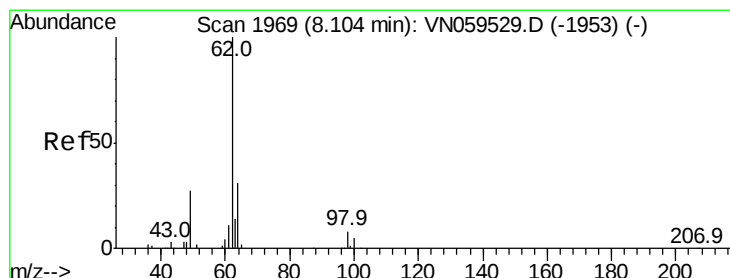
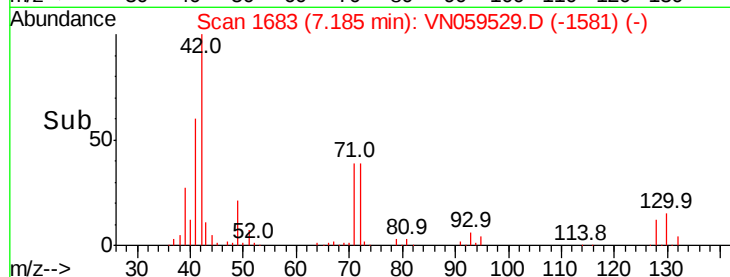
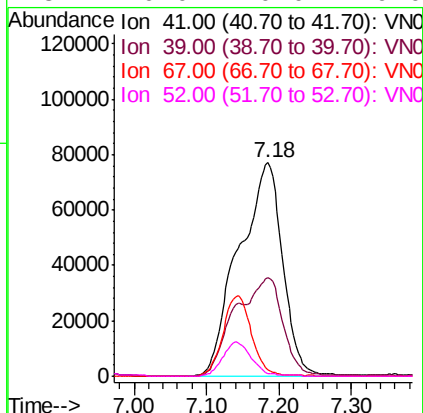
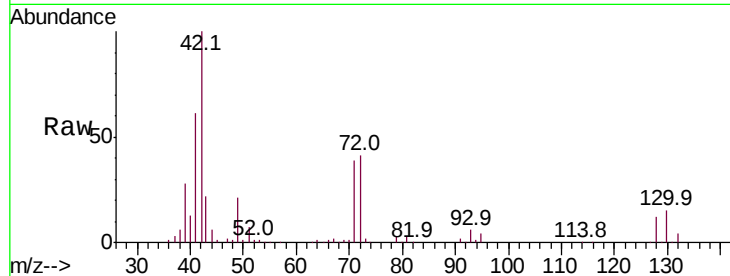




#41
Methacrylonitrile
Concen: 161.142 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.03 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

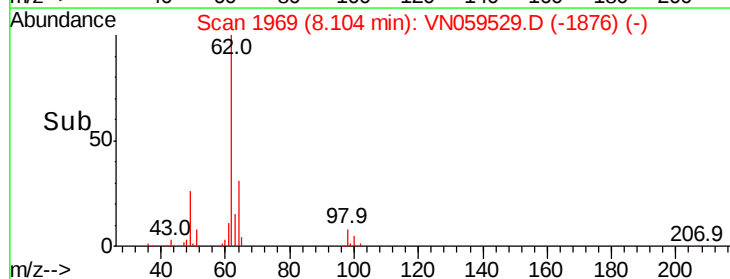
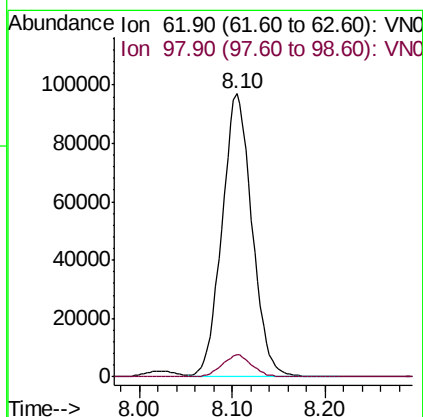
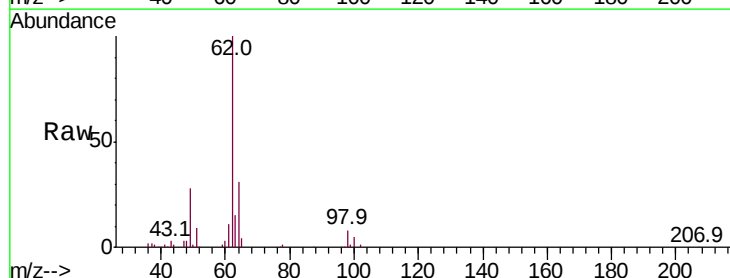
Instrument :
MSVOA_N
ClientSampleId :

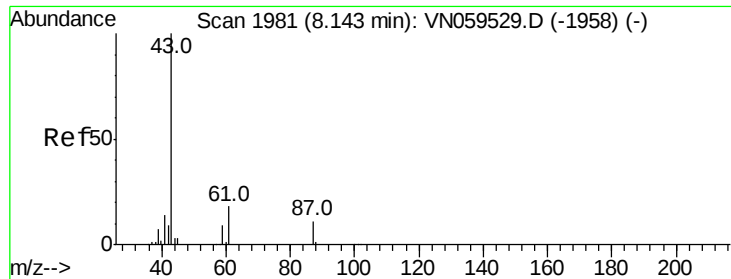
Tot Ion:	41	Resp:	323993
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#42
1,2-Dichloroethane
Concen: 49.374 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion:	62	Resp:	218122
Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.4





#43

Isopropyl Acetate

Concen: 48.573 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

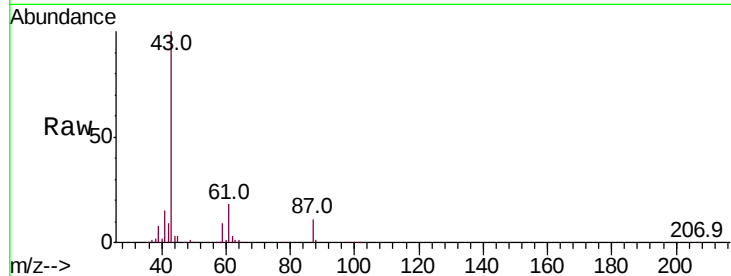
Tot Ion: 43 Resp: 354322

Ion Ratio Lower Upper

43 100

61 24.7 19.8 29.6

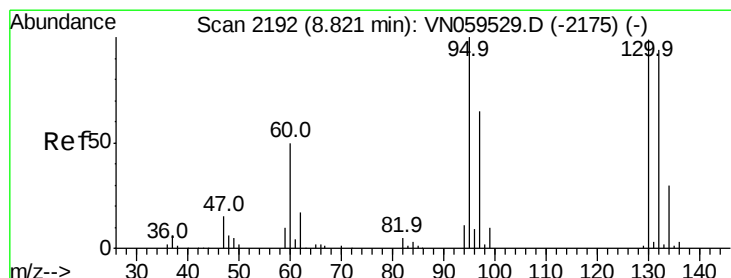
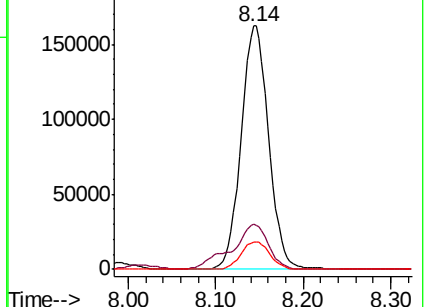
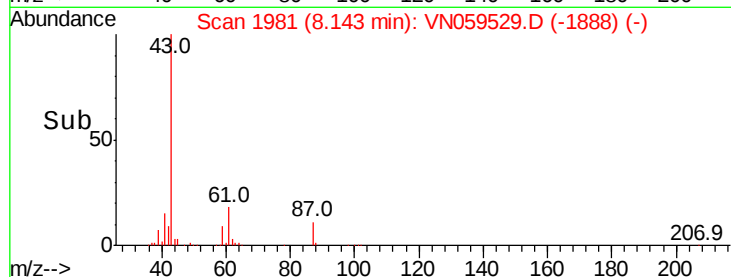
87 11.8 9.4 14.2



Abundance Ion 43.00 (42.70 to 43.70): VN059529.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN059529.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN059529.D (-1958) (-)



#44

Trichloroethene

Concen: 43.040 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059529.D

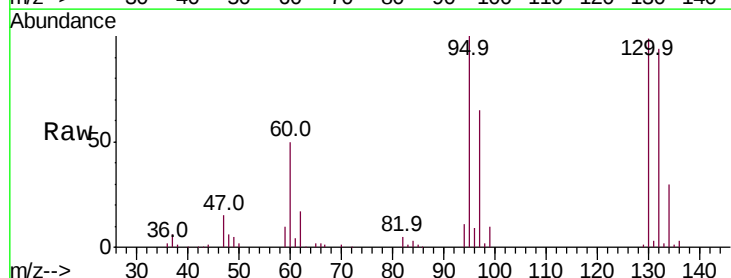
Acq: 9 Dec 2019 15:52

Tgt Ion:130 Resp: 142799

Ion Ratio Lower Upper

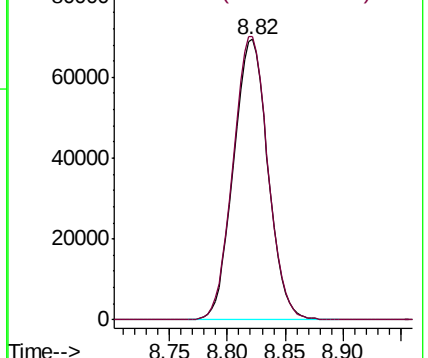
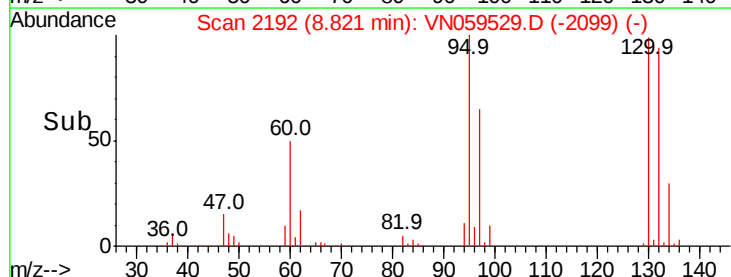
130 100

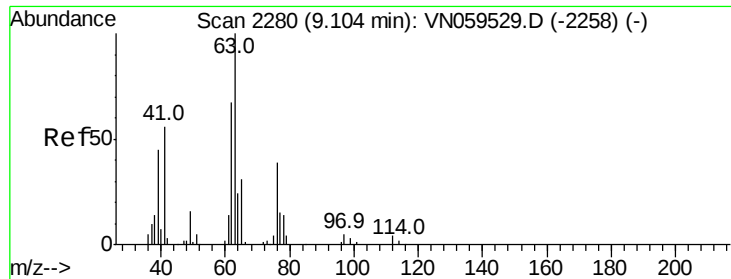
95 101.0 0.0 202.0



Abundance Ion 129.80 (129.50 to 130.50): VN059529.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN059529.D (-2175) (-)





#45

1,2-Dichloropropane

Concen: 44.985 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

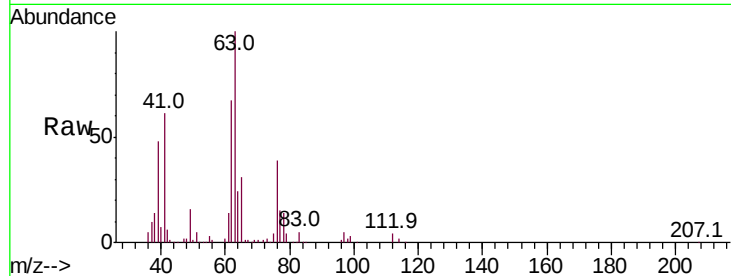
ClientSampleId :

Tot Ion: 63 Resp: 153150

Ion Ratio Lower Upper

63 100

65 31.0 24.8 37.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.10

80000

60000

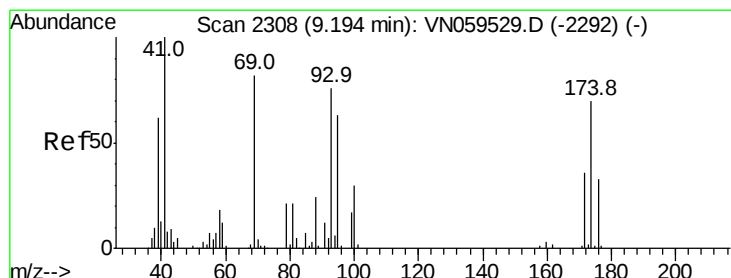
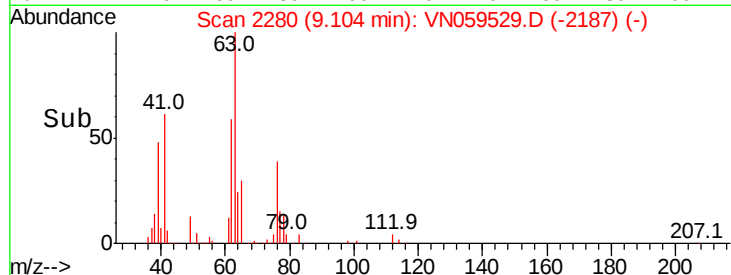
40000

20000

0

Time-->

9.00 9.10 9.20



#46

Dibromomethane

Concen: 46.028 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

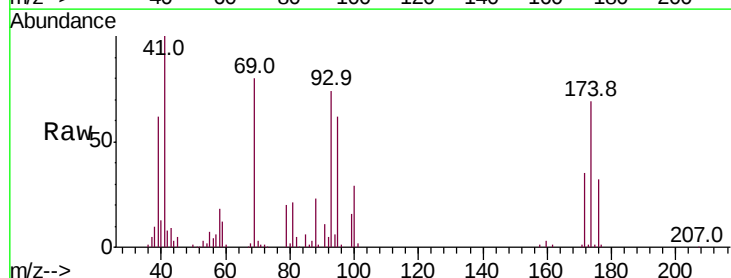
Tgt Ion: 93 Resp: 98086

Ion Ratio Lower Upper

93 100

95 83.8 67.0 100.6

174 94.5 75.6 113.4



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

60000

50000

40000

30000

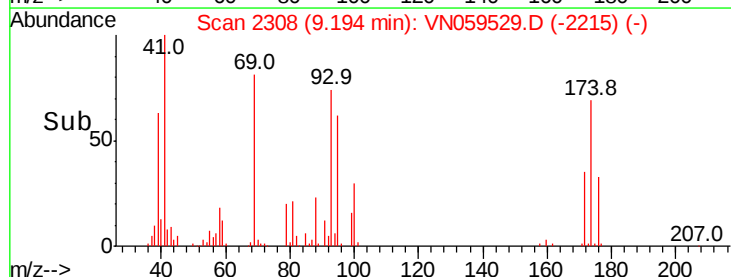
20000

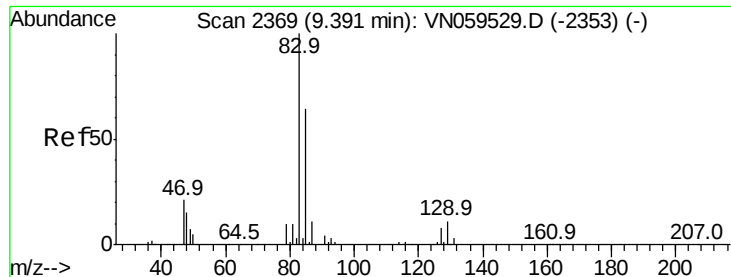
10000

0

Time-->

9.10 9.15 9.20 9.25 9.30





#47

Bromodichloromethane

Concen: 47.314 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

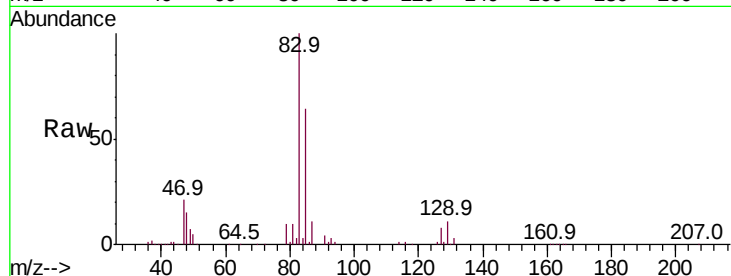
Tot Ion: 83 Resp: 202887

Ion Ratio Lower Upper

83 100

85 64.2 51.4 77.0

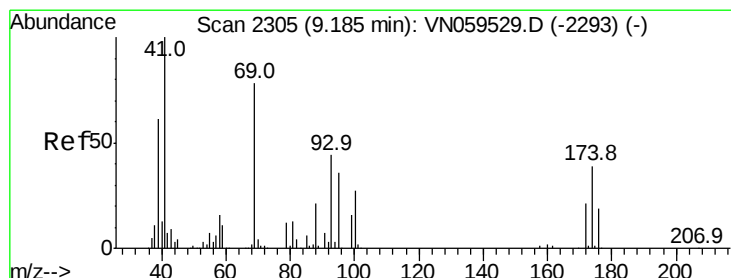
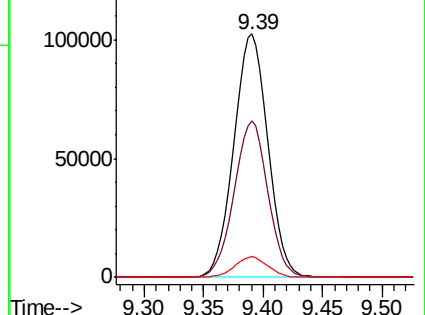
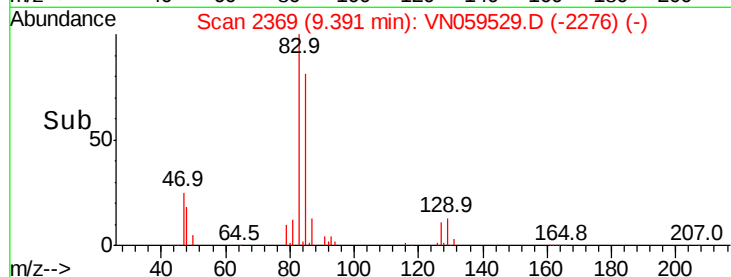
127 8.4 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 47.815 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

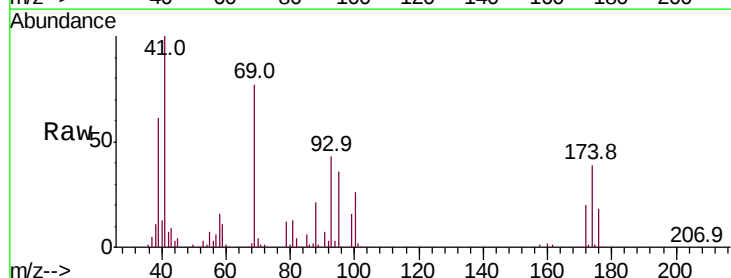
Tgt Ion: 41 Resp: 157080

Ion Ratio Lower Upper

41 100

69 80.0 64.0 96.0

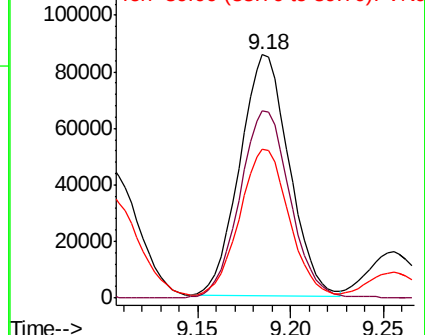
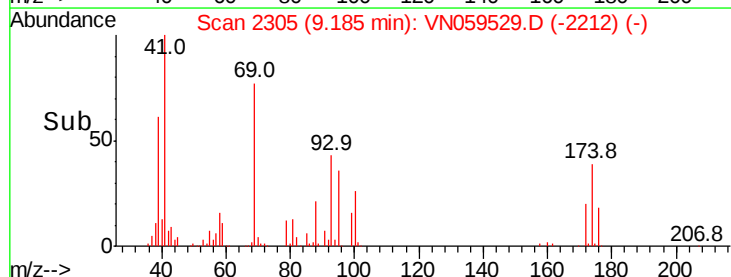
39 62.5 50.0 75.0

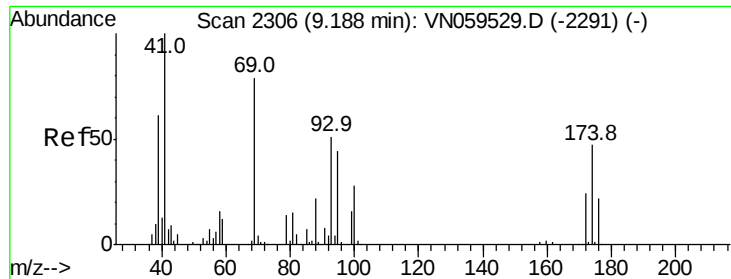


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 788.117 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

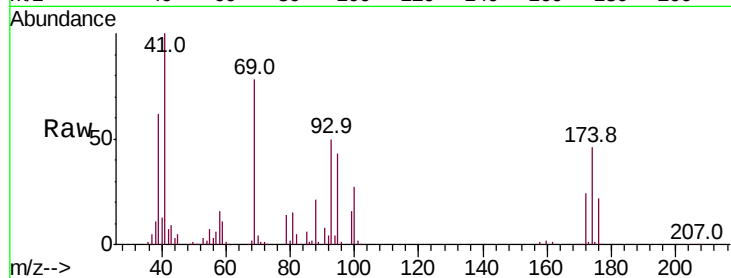
Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 38137

Ion	Ratio	Lower	Upper
88	100		
43	39.2	31.4	47.0
58	76.3	61.0	91.6



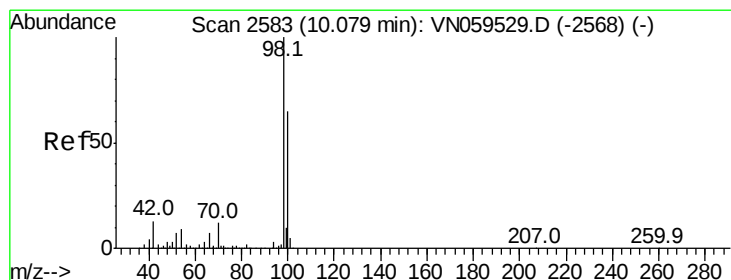
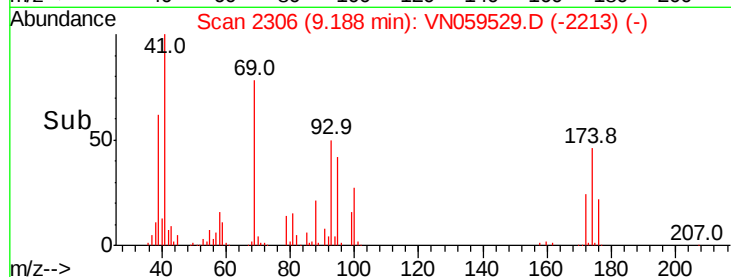
Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Time-->



#50

Toluene-d8

Concen: 45.596 ug/l

RT: 10.08 min Scan# 2583

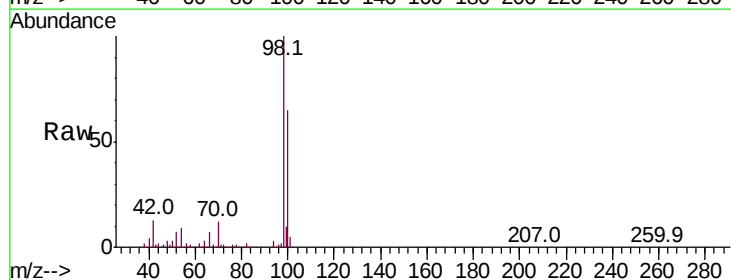
Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Tgt Ion: 98 Resp: 464574

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8

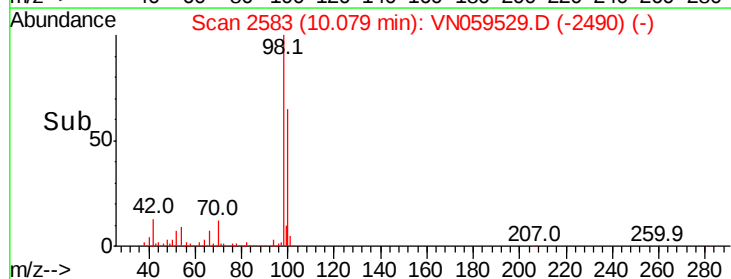


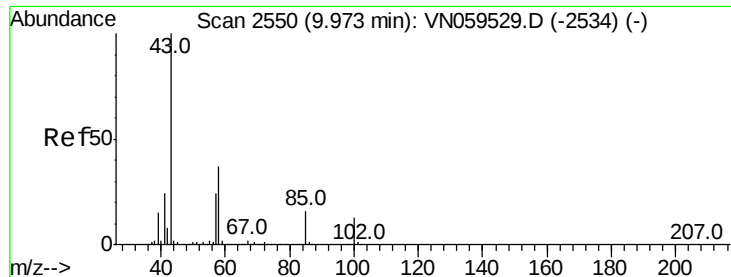
Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 251.066 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

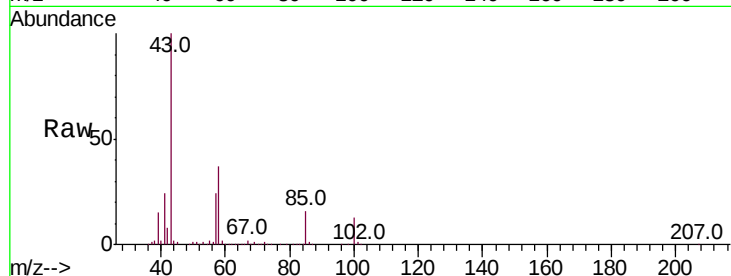
ClientSampleId :

Tot Ion: 43 Resp: 1084856

Ion Ratio Lower Upper

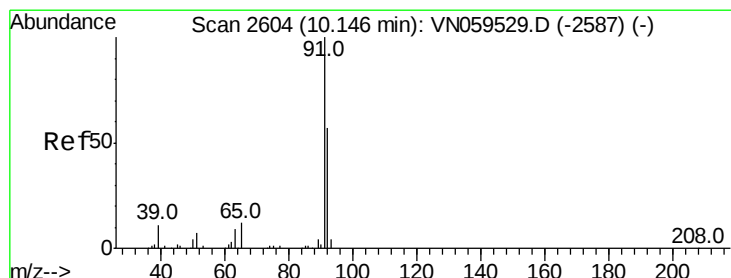
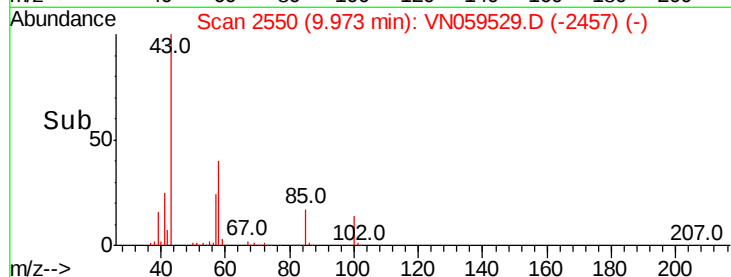
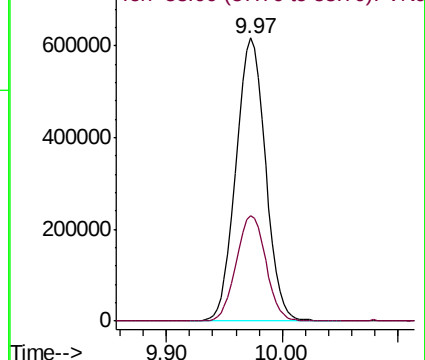
43 100

58 37.6 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VN059529.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN059529.D (-2534) (-)



#52

Toluene

Concen: 44.800 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059529.D

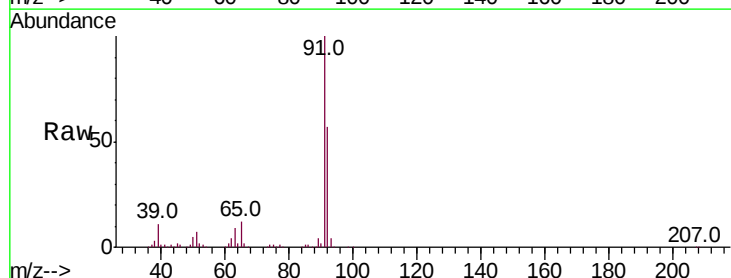
Acq: 9 Dec 2019 15:52

Tgt Ion: 92 Resp: 343837

Ion Ratio Lower Upper

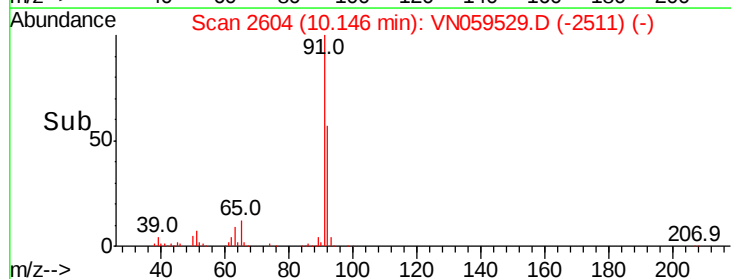
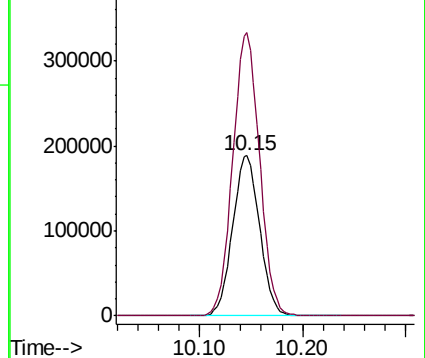
92 100

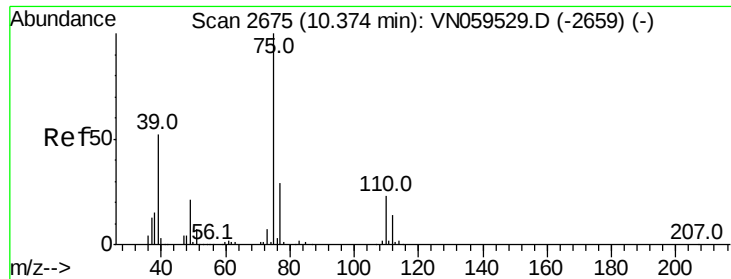
91 175.9 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN059529.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059529.D (-2587) (-)





#53

t-1,3-Dichloropropene

Concen: 46.681 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

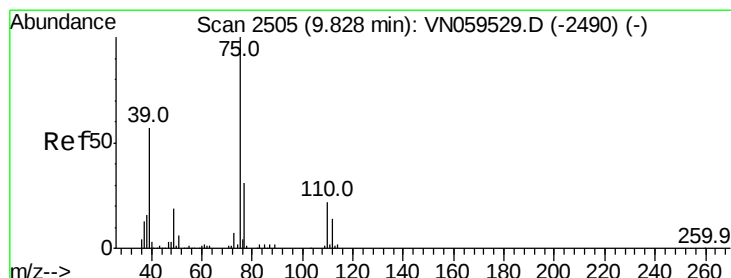
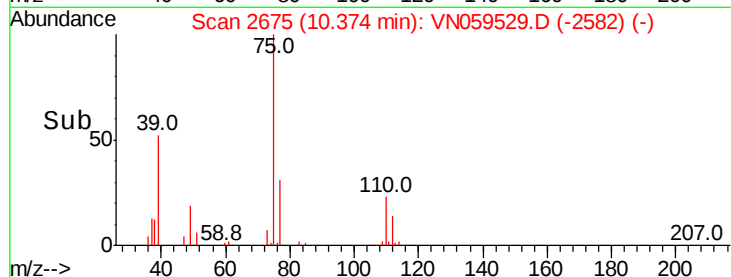
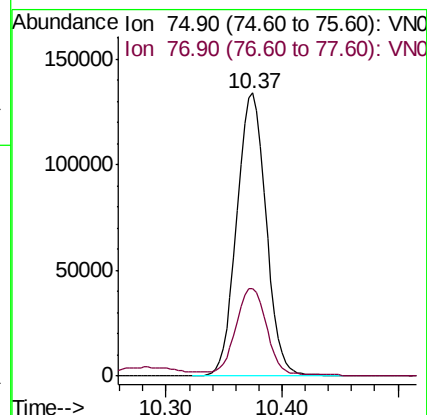
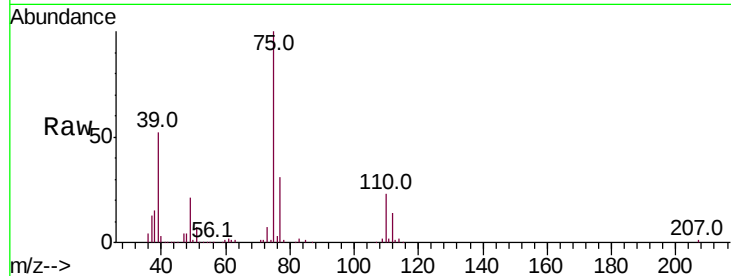
ClientSampleId :

Tot Ion: 75 Resp: 234742

Ion Ratio Lower Upper

75 100

77 30.6 24.5 36.7



#54

cis-1,3-Dichloropropene

Concen: 46.289 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

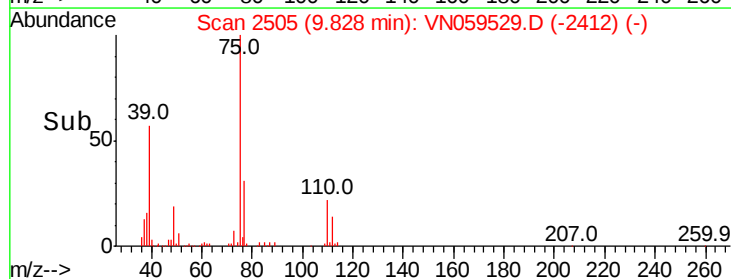
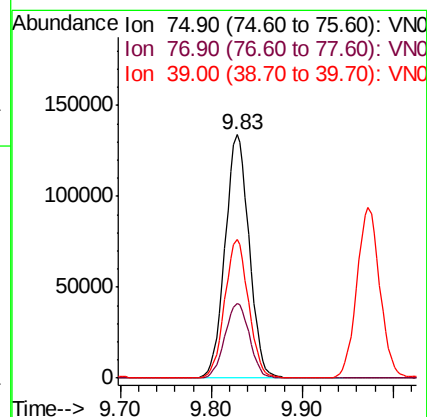
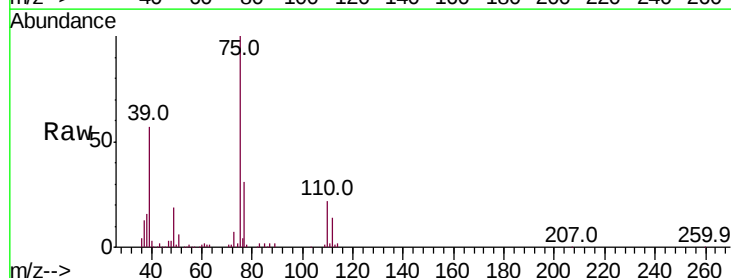
Tgt Ion: 75 Resp: 245576

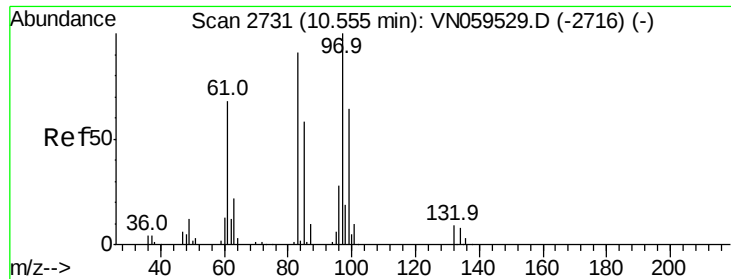
Ion Ratio Lower Upper

75 100

77 30.7 24.6 36.8

39 57.0 45.6 68.4





#55

1,1,2-Trichloroethane

Concen: 45.062 ug/l

RT: 10.55 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

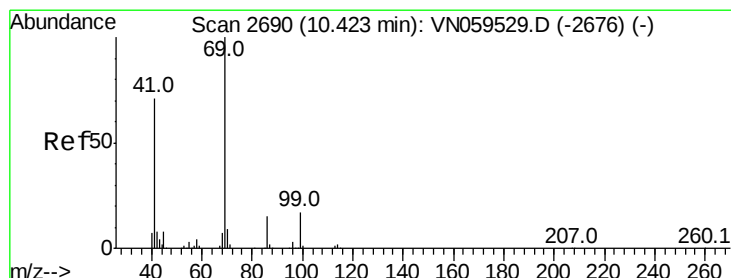
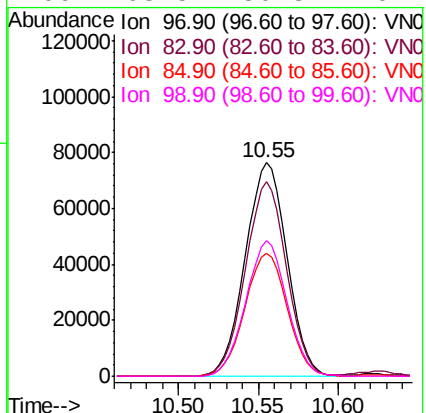
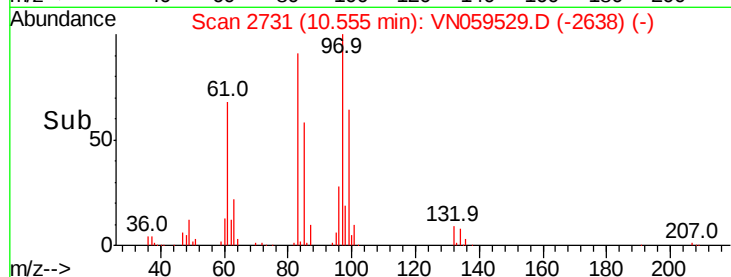
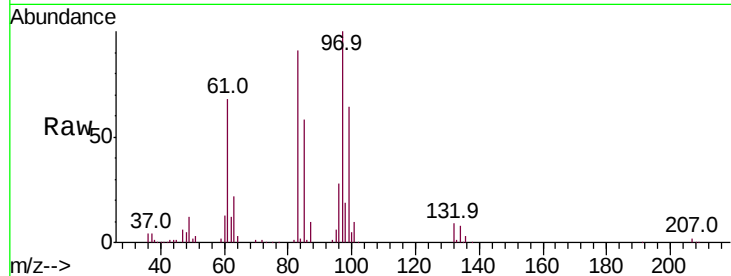
Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 97 Resp: 136559

Ion	Ratio	Lower	Upper
97	100		
83	91.1	72.9	109.3
85	57.6	46.1	69.1
99	63.5	50.8	76.2



#56

Ethyl methacrylate

Concen: 47.823 ug/l

RT: 10.42 min Scan# 2690

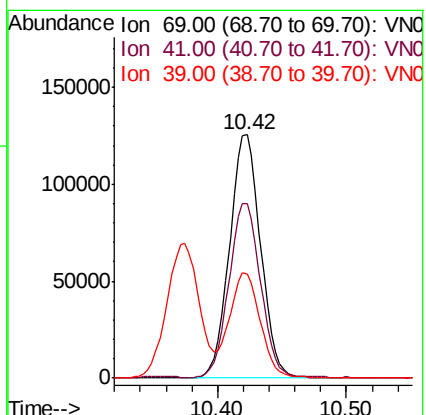
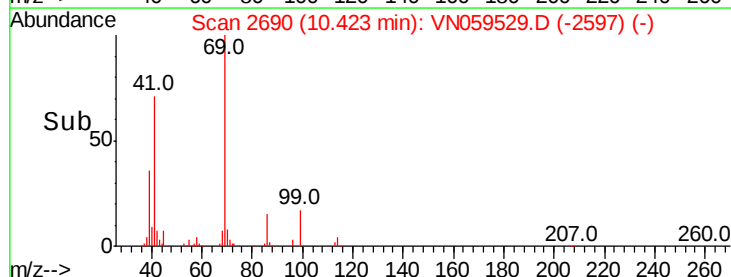
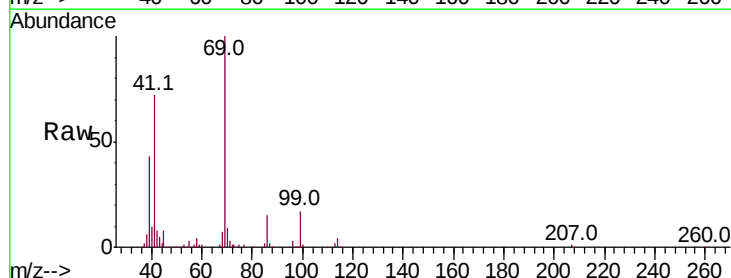
Delta R.T. 0.00 min

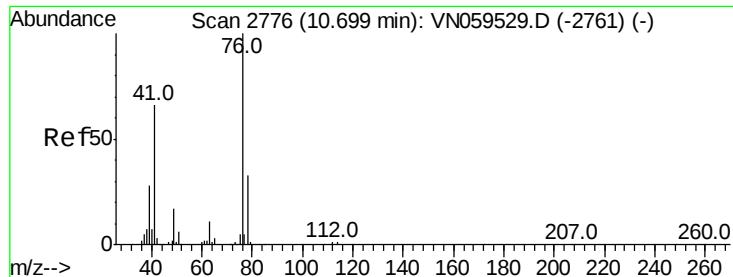
Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Tgt Ion: 69 Resp: 209964

Ion	Ratio	Lower	Upper
69	100		
41	72.1	57.7	86.5
39	42.7	34.2	51.2





#57

1,3-Dichloropropane

Concen: 45.516 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

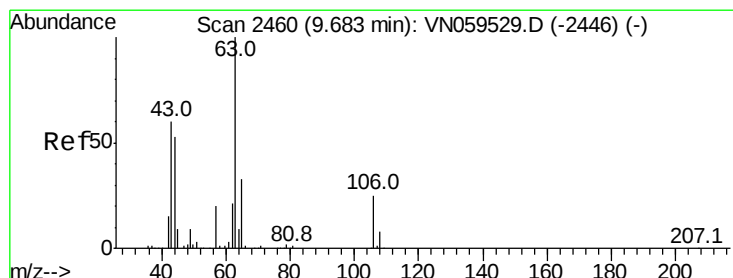
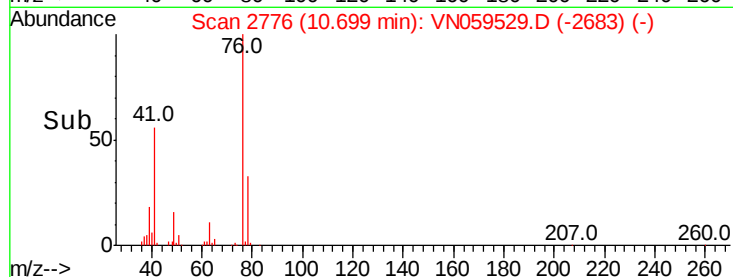
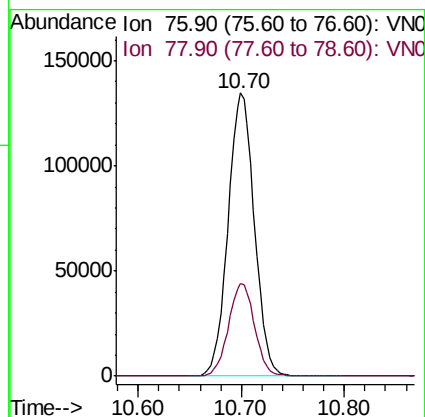
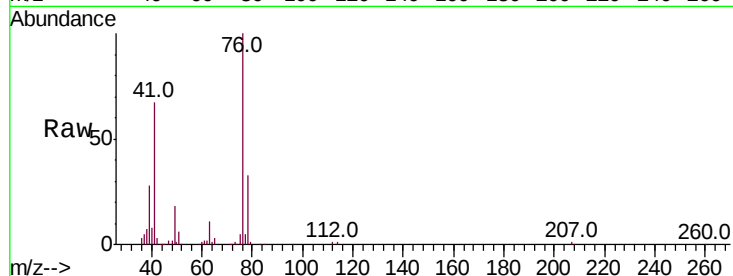
ClientSampled :

Tot Ion: 76 Resp: 239498

Ion Ratio Lower Upper

76 100

78 32.6 26.1 39.1



#58

2-Chloroethyl Vinyl ether

Concen: 120.865 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. 0.00 min

Lab File: VN059529.D

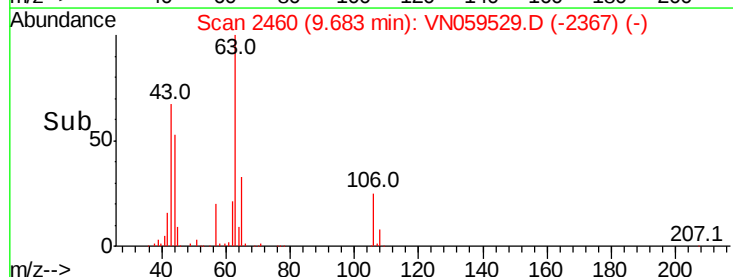
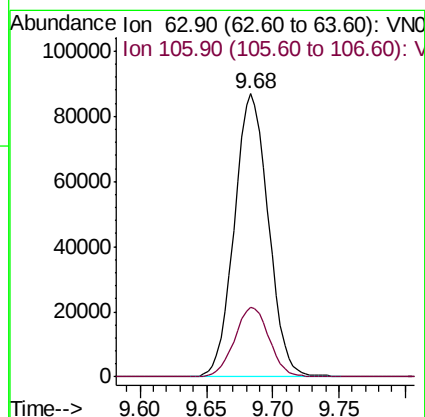
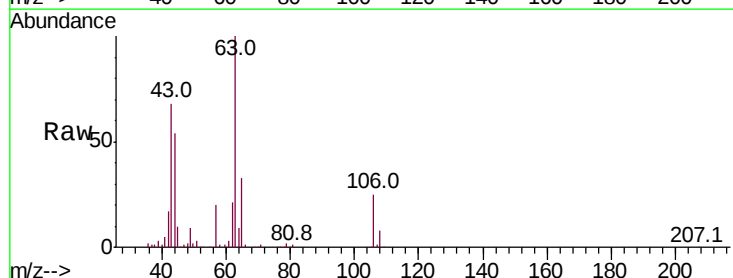
Acq: 9 Dec 2019 15:52

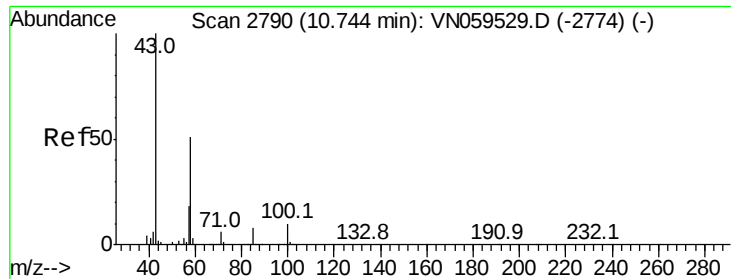
Tgt Ion: 63 Resp: 155041

Ion Ratio Lower Upper

63 100

106 24.9 19.9 29.9

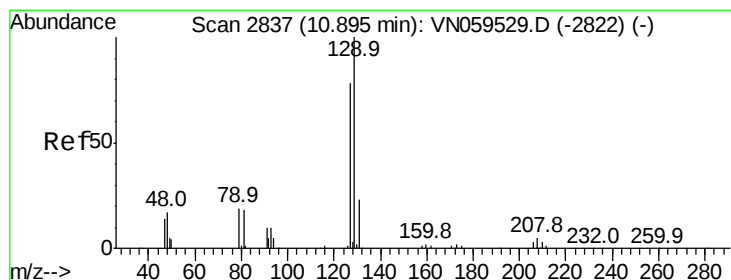
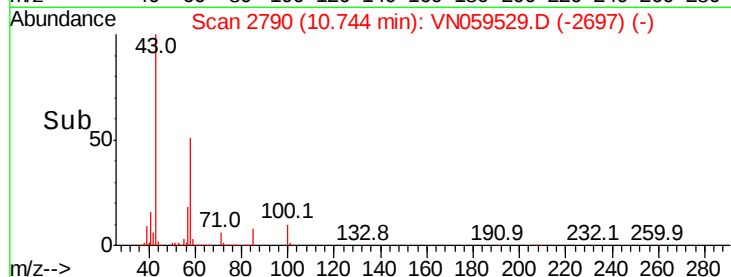
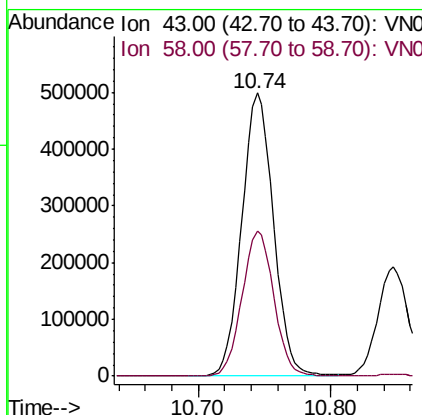
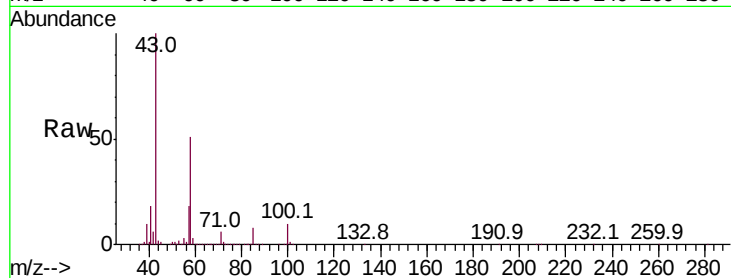




#59
2-Hexanone
Concen: 253.890 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

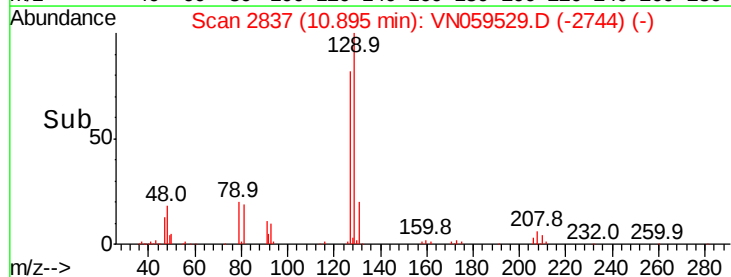
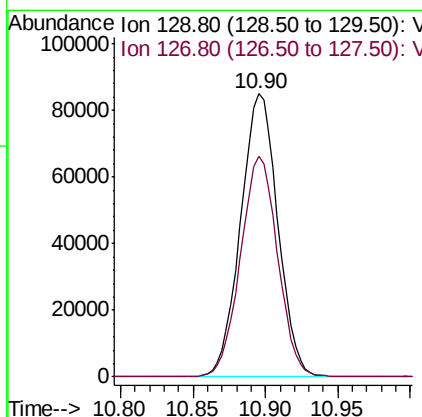
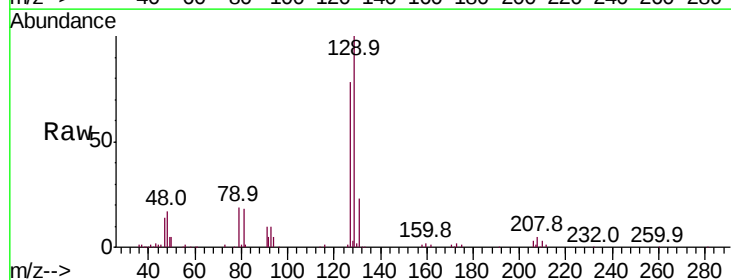
Instrument :
MSVOA_N
ClientSampled :

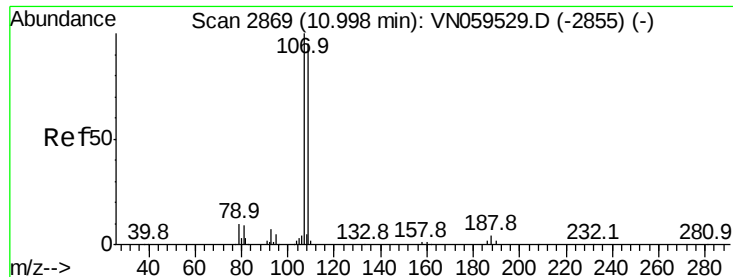
Tot Ion: 43 Resp: 825637
Ion Ratio Lower Upper
43 100
58 51.7 25.9 77.6



#60
Dibromochloromethane
Concen: 46.652 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion: 129 Resp: 151914
Ion Ratio Lower Upper
129 100
127 77.7 38.9 116.6

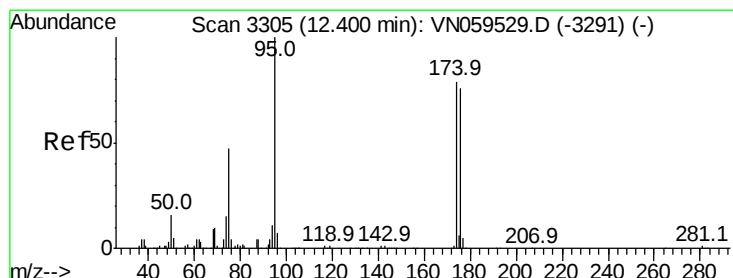
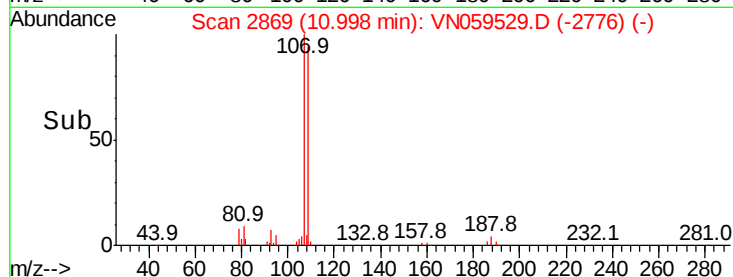
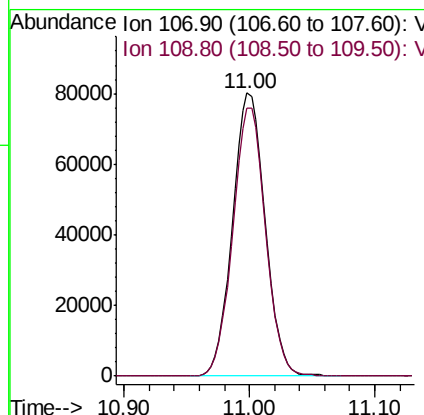
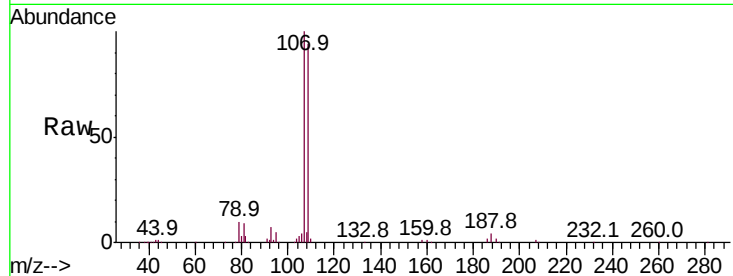




#61
 1,2-Dibromoethane
 Concen: 46.044 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

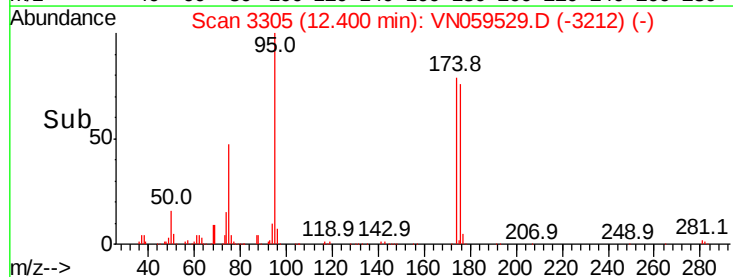
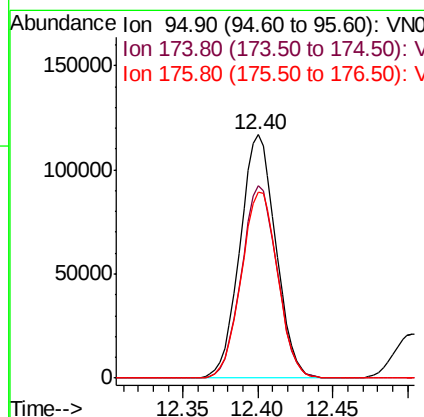
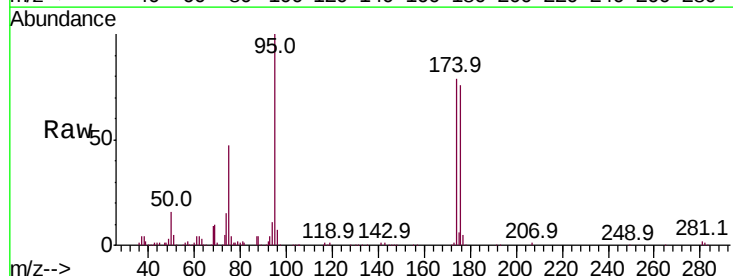
Instrument :
 MSVOA_N
 ClientSampled :

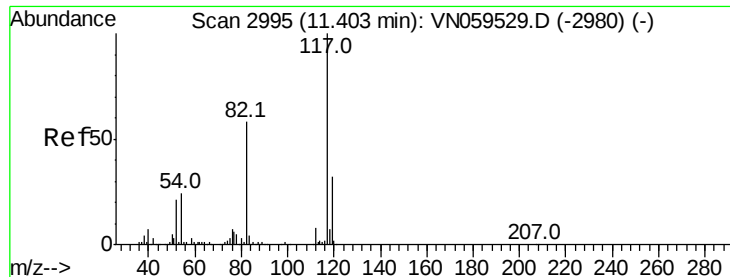
Tot Ion: 107 Resp: 144550
 Ion Ratio Lower Upper
 107 100
 109 95.1 76.1 114.1



#62
 4-Bromofluorobenzene
 Concen: 53.071 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Tgt Ion: 95 Resp: 194680
 Ion Ratio Lower Upper
 95 100
 174 79.0 0.0 158.0
 176 77.7 0.0 155.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

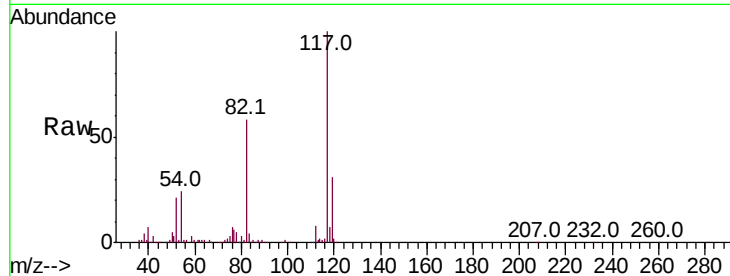
Tot Ion:117 Resp: 435991

Ion Ratio Lower Upper

117 100

82 58.1 46.5 69.7

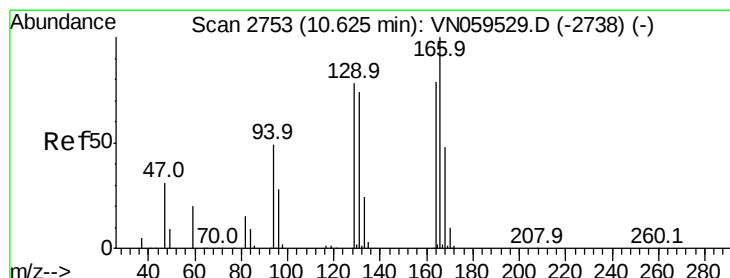
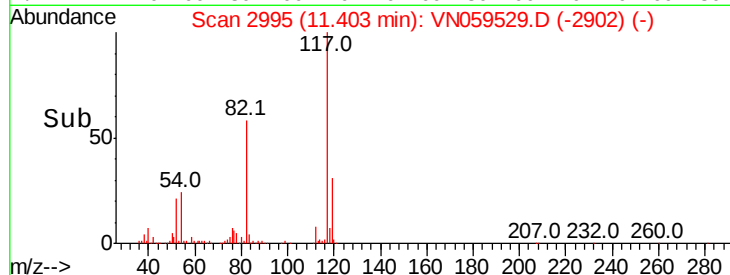
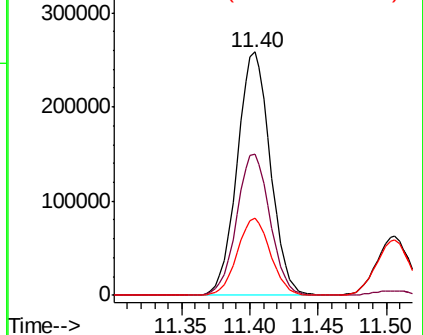
119 31.5 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 35.662 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Tgt Ion:164 Resp: 125973

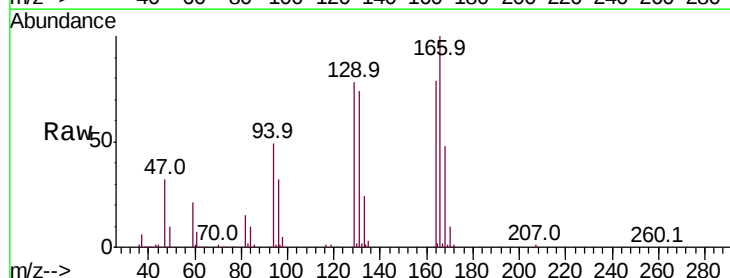
Ion Ratio Lower Upper

164 100

166 127.0 101.6 152.4

129 98.8 79.0 118.6

131 93.4 74.7 112.1

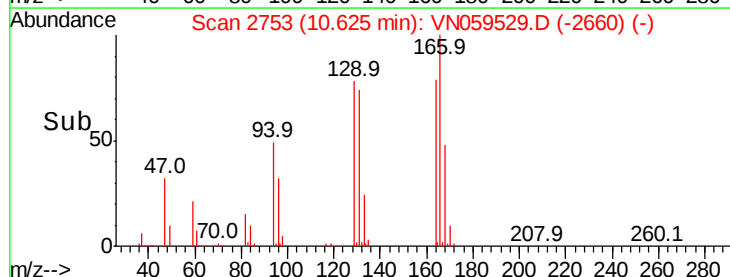
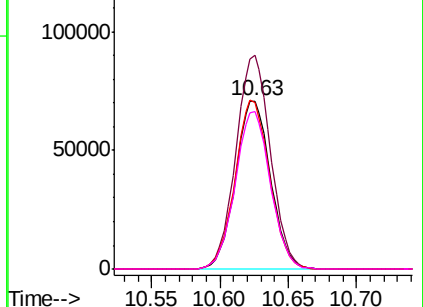


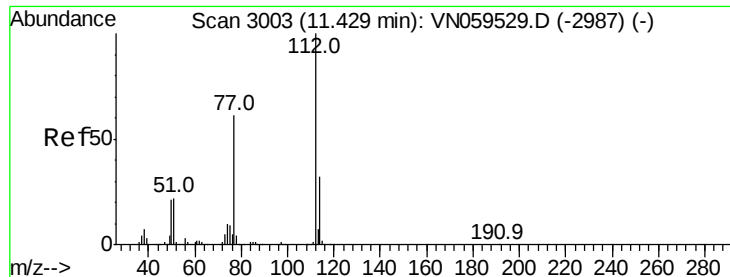
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 43.106 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

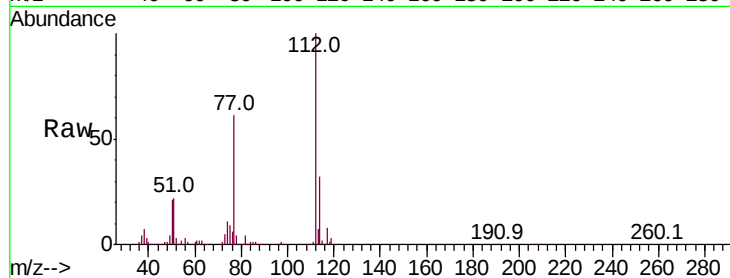
ClientSampled :

Tot Ion:112 Resp: 400039

Ion Ratio Lower Upper

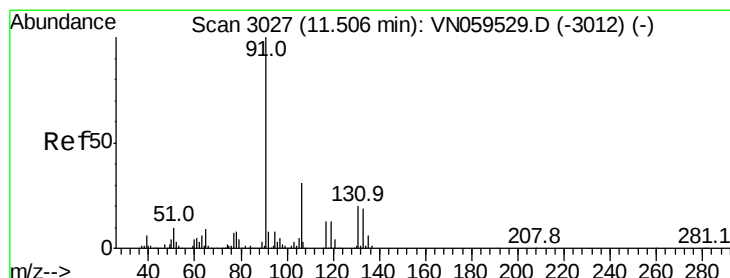
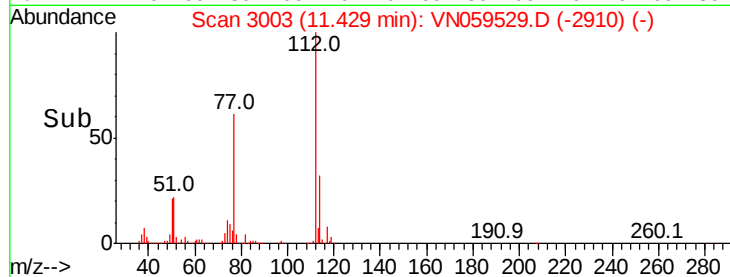
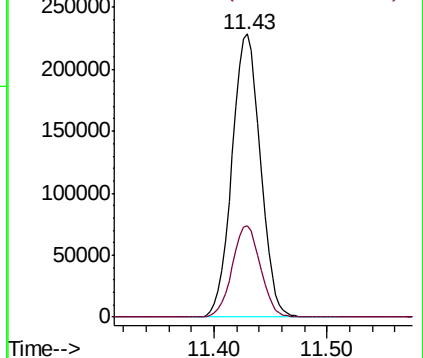
112 100

114 32.5 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 45.339 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

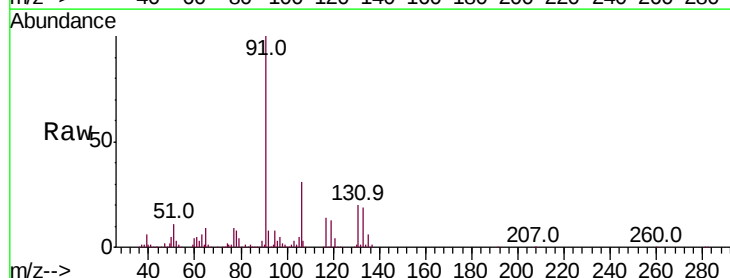
Tgt Ion:131 Resp: 151729

Ion Ratio Lower Upper

131 100

133 95.5 47.8 143.3

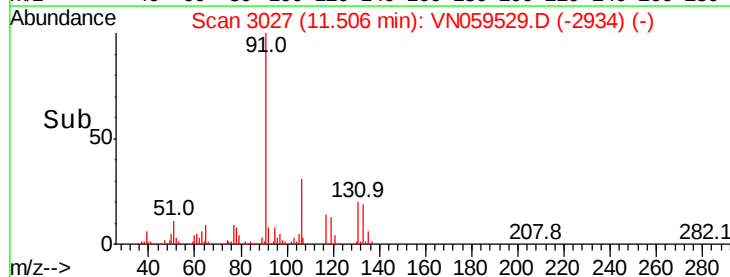
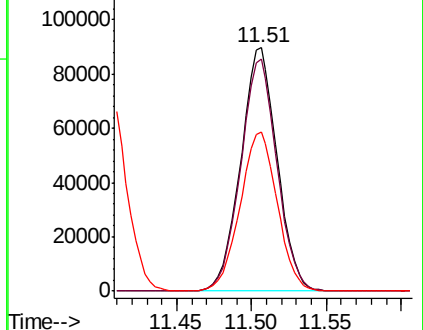
119 66.8 33.4 100.2

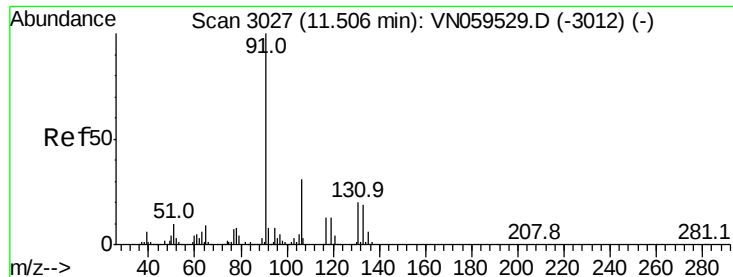


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 46.098 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

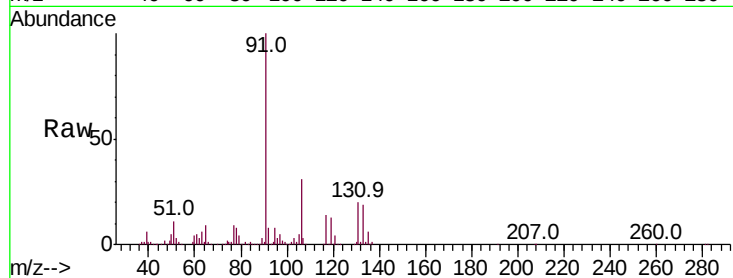
ClientSampleId :

Tot Ion: 91 Resp: 751217

Ion Ratio Lower Upper

91 100

106 30.6 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3012) (-)

Ion 106.00 (105.70 to 106.70): VN059529.D (-3012) (-)

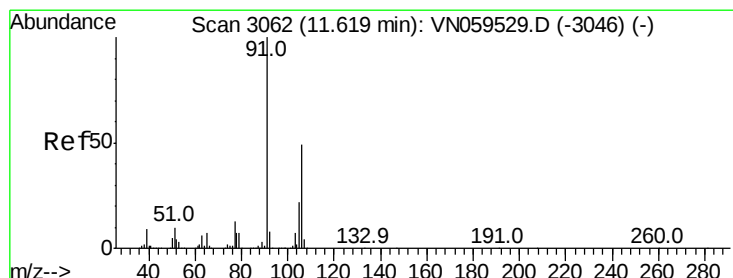
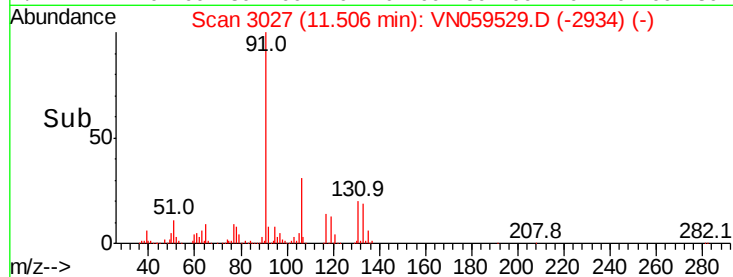
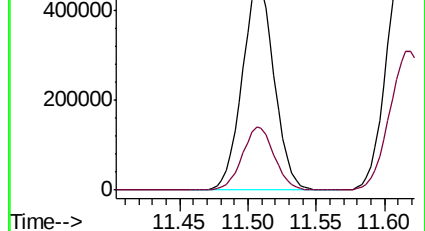
600000

400000

200000

0

11.45 11.50 11.55 11.60



#68

m/p-Xylenes

Concen: 97.951 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN059529.D

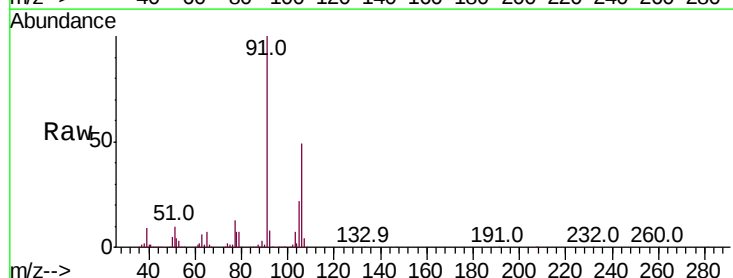
Acq: 9 Dec 2019 15:52

Tgt Ion: 106 Resp: 599234

Ion Ratio Lower Upper

106 100

91 203.6 162.9 244.3



Abundance Ion 106.00 (105.70 to 106.70): VN059529.D (-3046) (-)

Ion 91.00 (90.70 to 91.70): VN059529.D (-3046) (-)

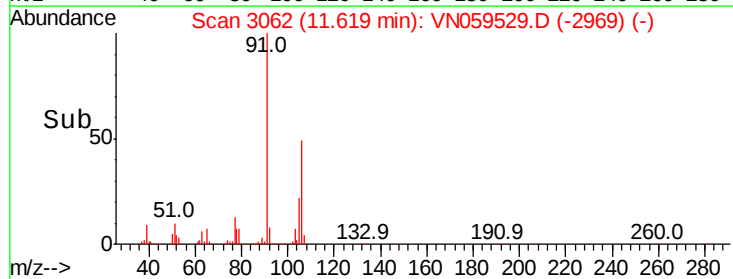
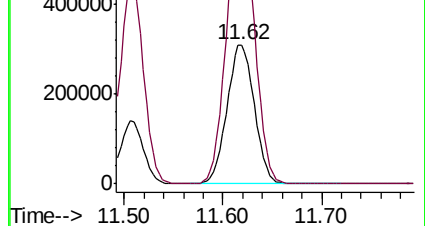
600000

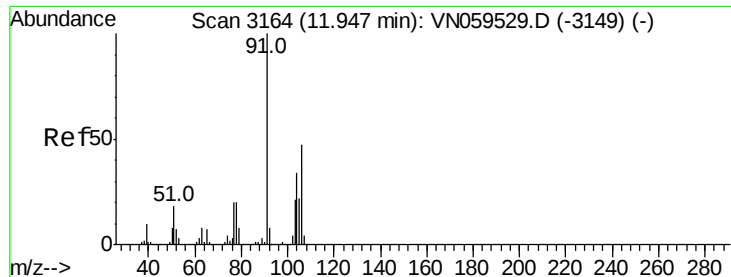
400000

200000

0

11.50 11.60 11.70

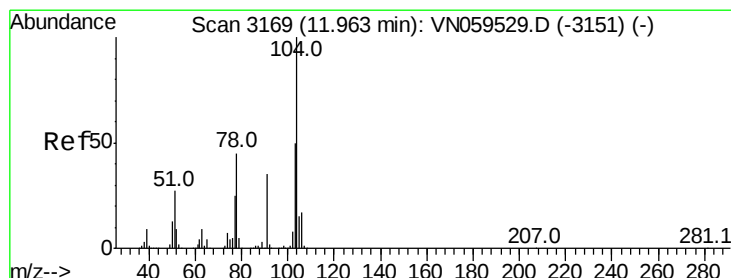
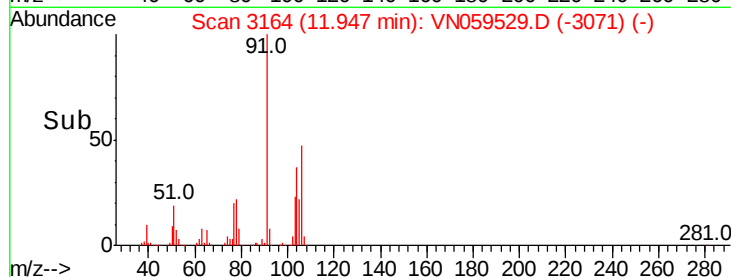
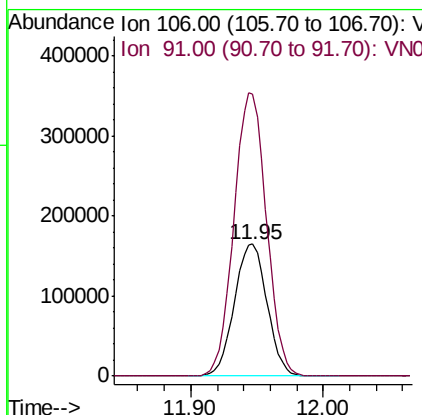
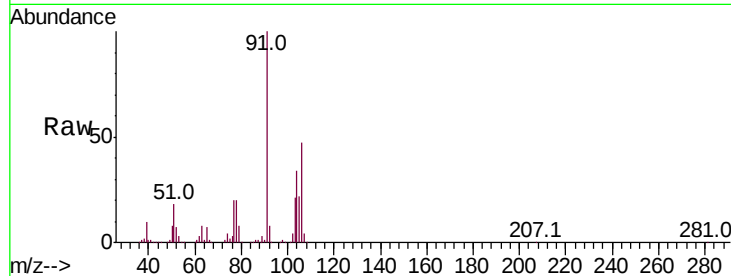




#69
o-Xylene
Concen: 48.428 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

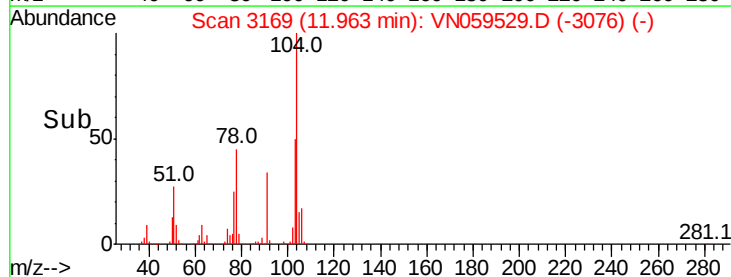
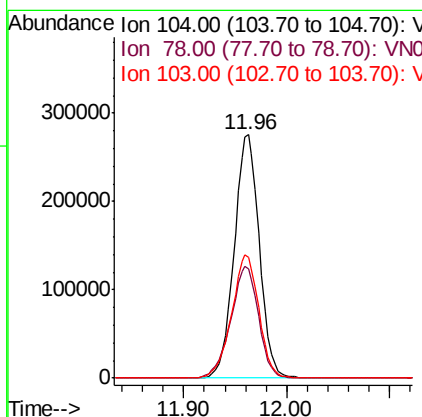
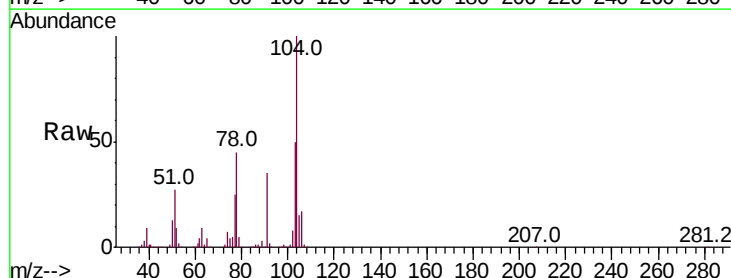
Instrument :
MSVOA_N
ClientSampleId :

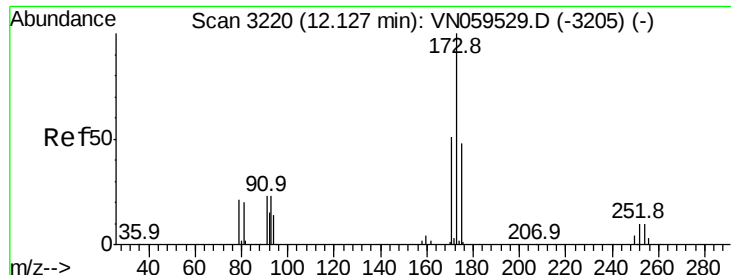
Tot Ion:106 Resp: 282146
Ion Ratio Lower Upper
106 100
91 213.3 106.7 319.9



#70
Styrene
Concen: 50.142 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN059529.D
Acq: 9 Dec 2019 15:52

Tgt Ion:104 Resp: 467910
Ion Ratio Lower Upper
104 100
78 50.7 40.6 60.8
103 54.9 43.9 65.9





#71

Bromoform

Concen: 50.150 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

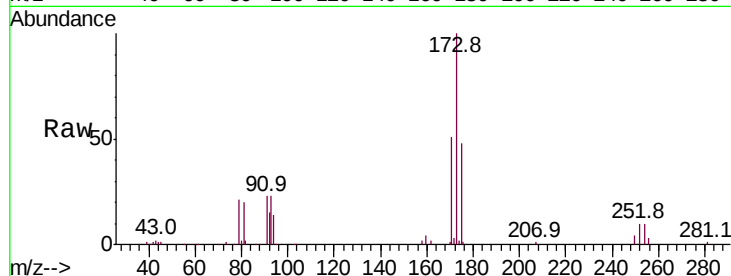
Tot Ion:173 Resp: 132600

Ion Ratio Lower Upper

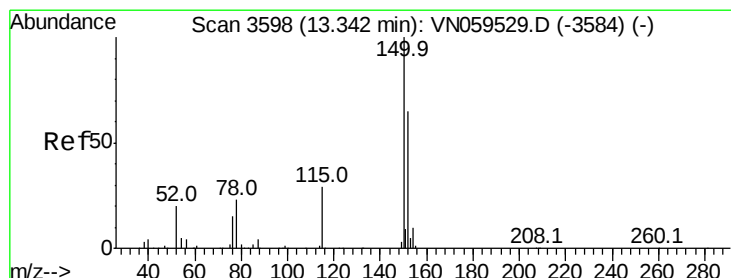
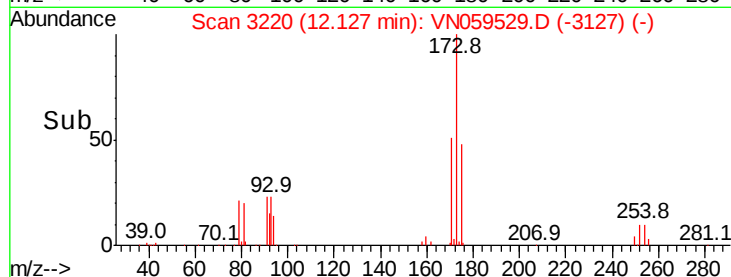
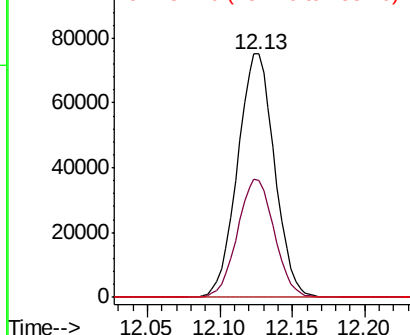
173 100

175 48.3 24.1 72.4

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

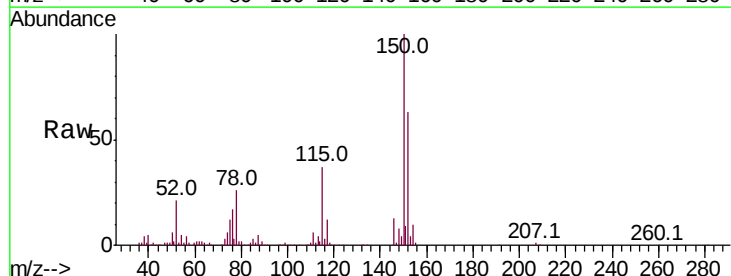
Tgt Ion:152 Resp: 246934

Ion Ratio Lower Upper

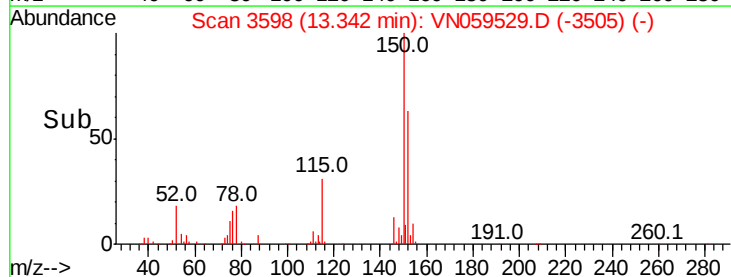
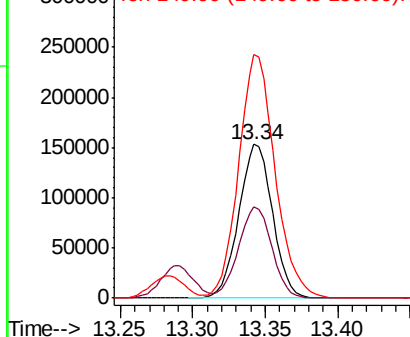
152 100

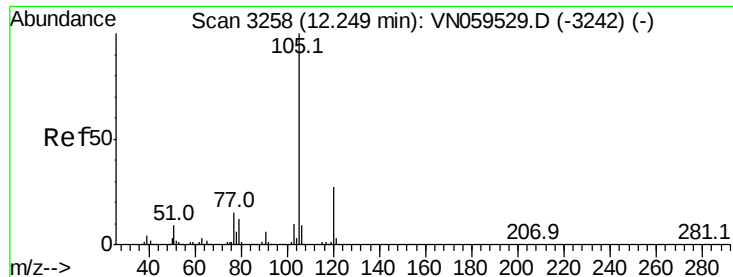
115 58.8 29.4 88.2

150 171.2 0.0 342.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 37.168 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

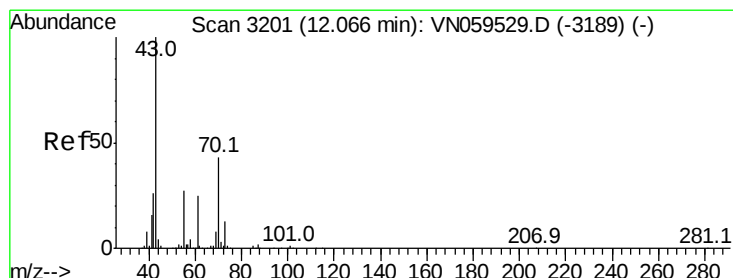
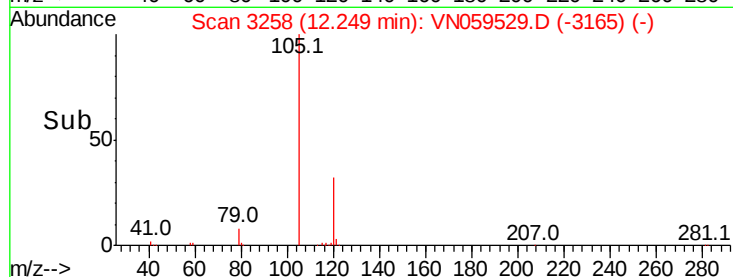
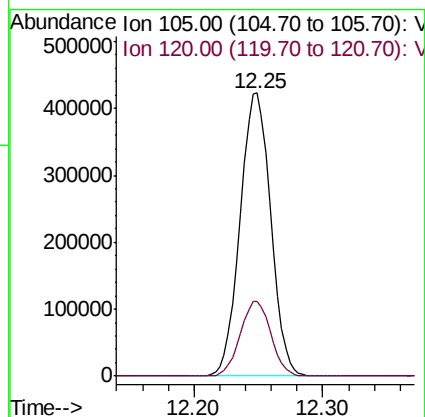
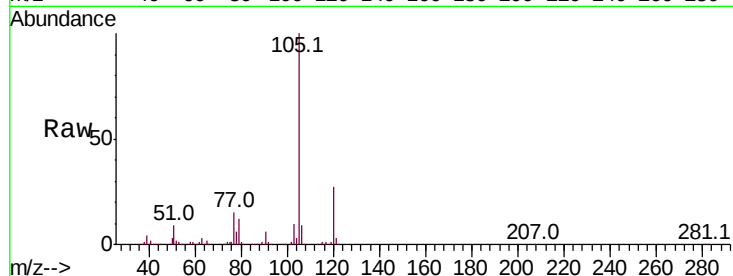
ClientSampled :

Tot Ion:105 Resp: 699563

Ion Ratio Lower Upper

105 100

120 26.3 13.2 39.5



#74

N-ethyl acetate

Concen: 42.995 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Tgt Ion: 43 Resp: 330404

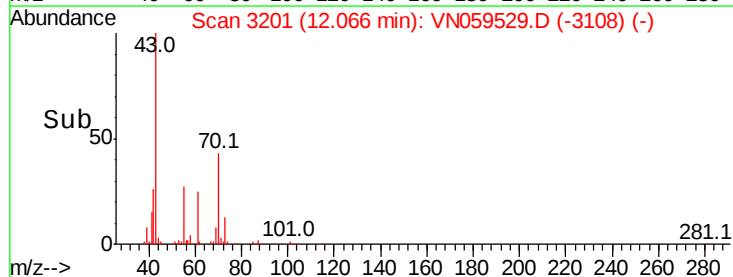
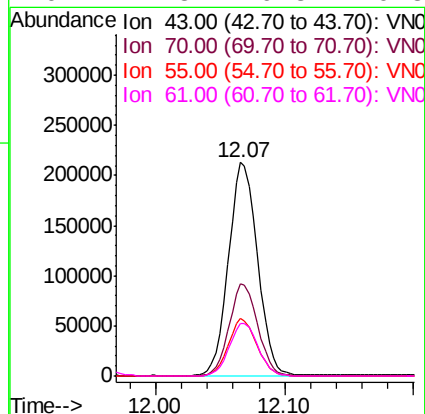
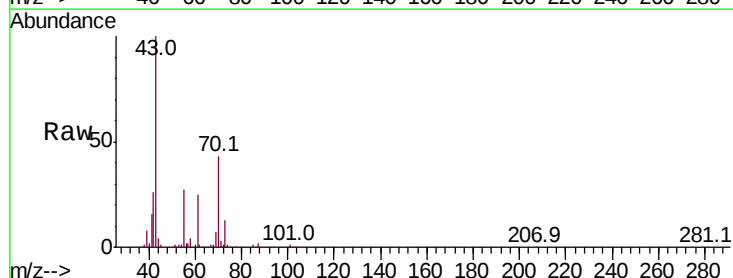
Ion Ratio Lower Upper

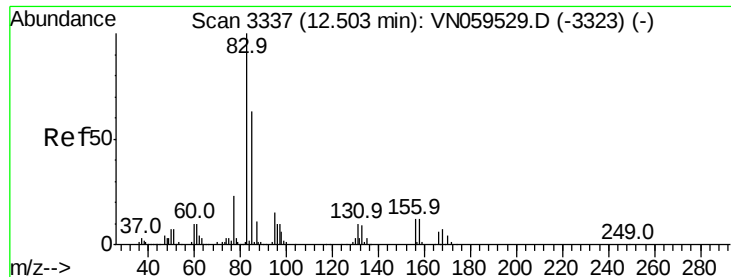
43 100

70 42.8 34.2 51.4

55 26.6 21.3 31.9

61 24.8 19.8 29.8





#75

1,1,2,2-Tetrachloroethane

Concen: 40.276 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

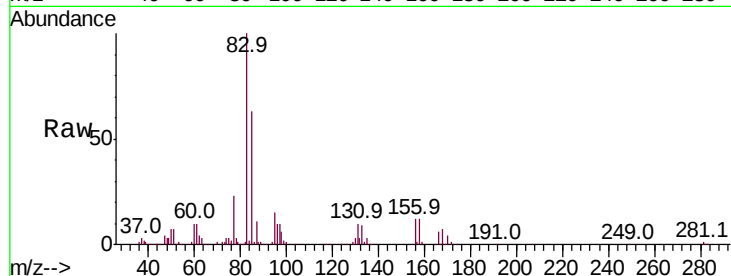
Tot Ion: 83 Resp: 246077

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.3	31.6	95.0

83 100

131 9.9 5.0 14.9

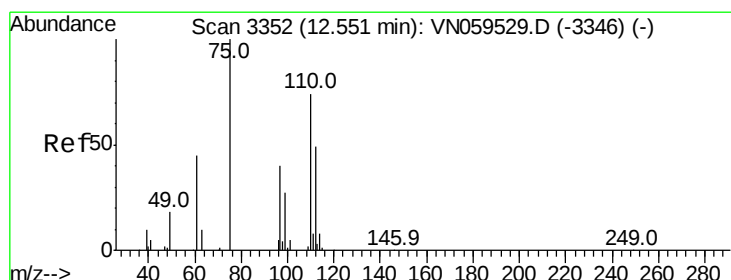
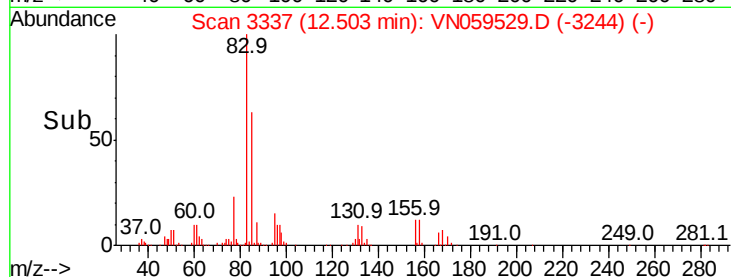
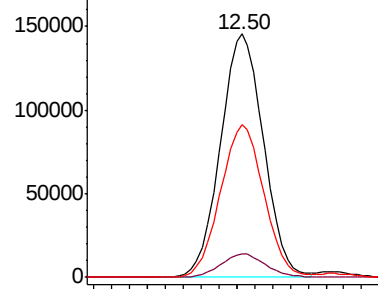
85 63.3 31.6 95.0



Abundance Ion 82.90 (82.60 to 83.60): VNC

200000 Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 55.743 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VN059529.D

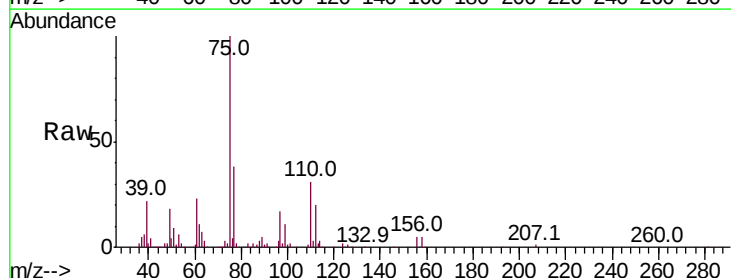
Acq: 9 Dec 2019 15:52

Tgt Ion: 75 Resp: 336295

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

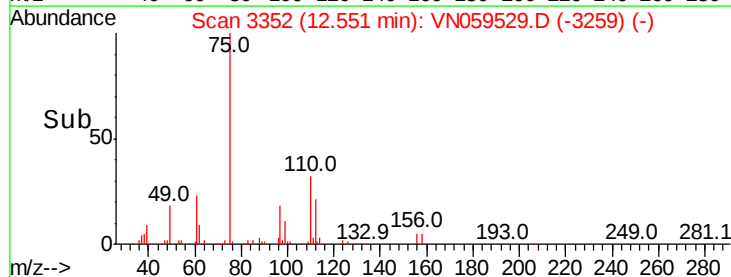
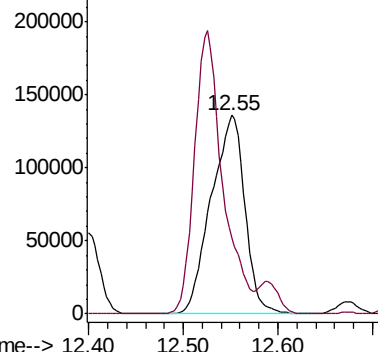
75 100

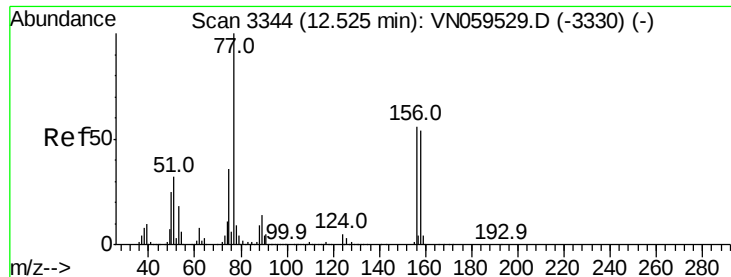
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 38.676 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

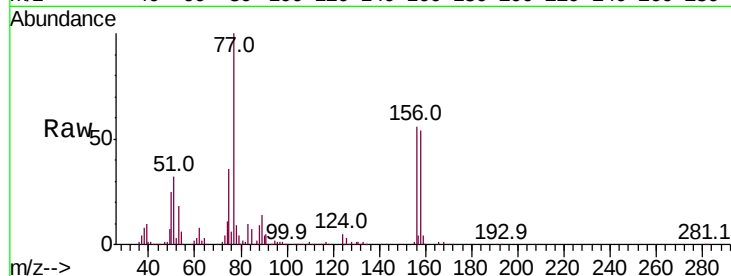
Tot Ion:156 Resp: 184329

Ion Ratio Lower Upper

156 100

77 218.5 109.3 327.8

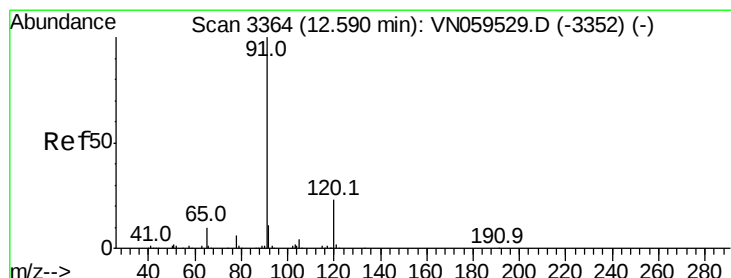
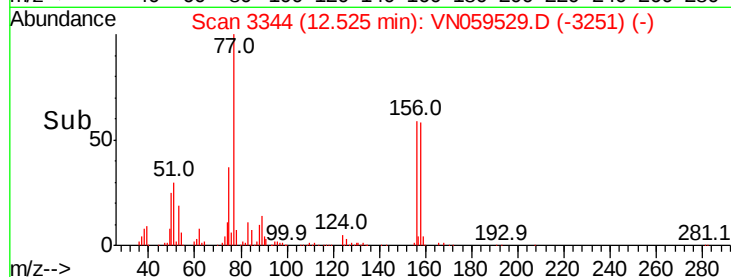
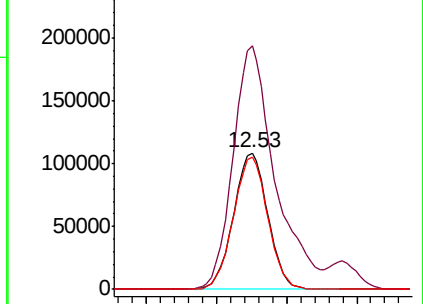
158 97.2 48.6 145.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 40.765 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN059529.D

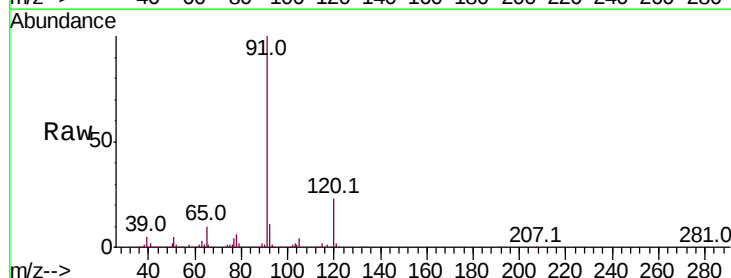
Acq: 9 Dec 2019 15:52

Tgt Ion: 91 Resp: 901920

Ion Ratio Lower Upper

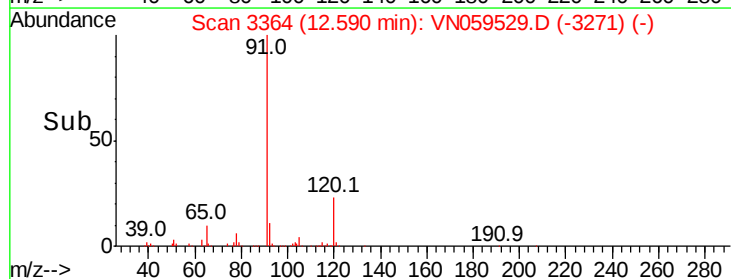
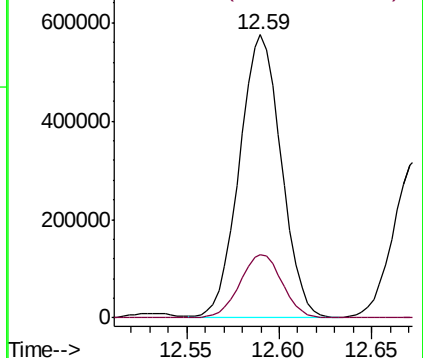
91 100

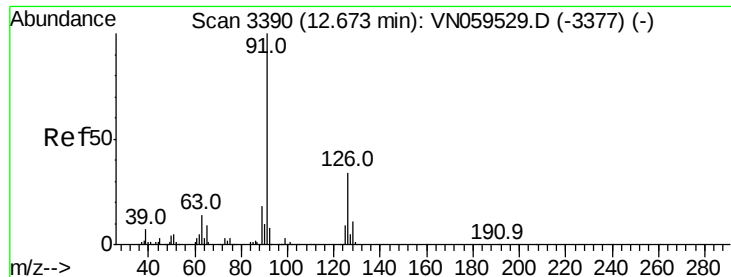
120 22.7 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 39.214 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

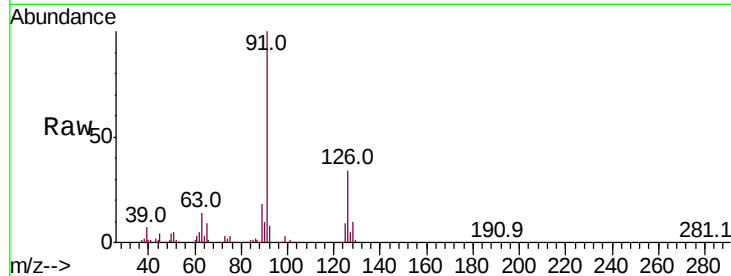
ClientSampleId :

Tot Ion: 91 Resp: 523776

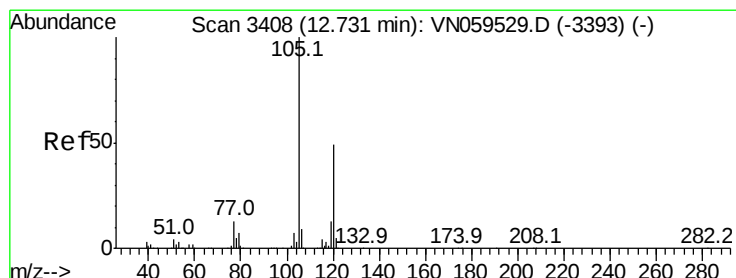
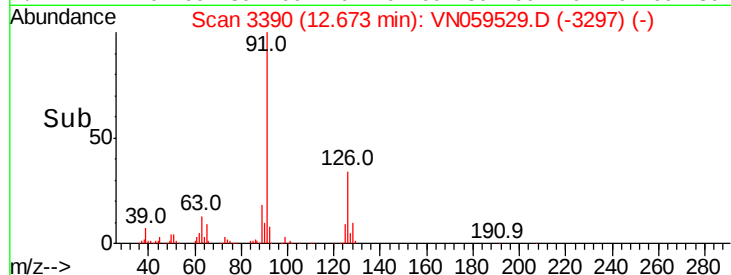
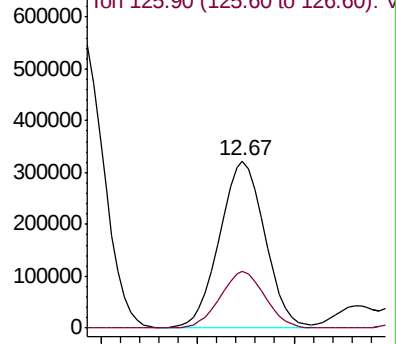
Ion Ratio Lower Upper

91 100

126 33.8 16.9 50.7



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 41.221 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059529.D

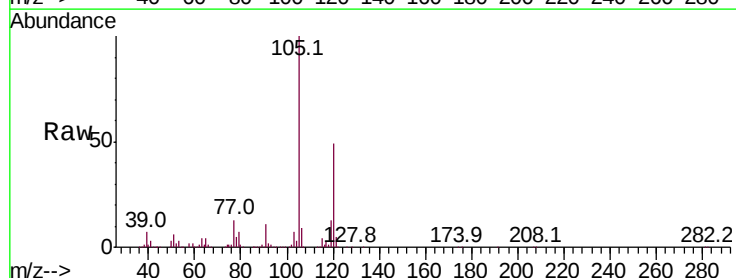
Acq: 9 Dec 2019 15:52

Tgt Ion:105 Resp: 656663

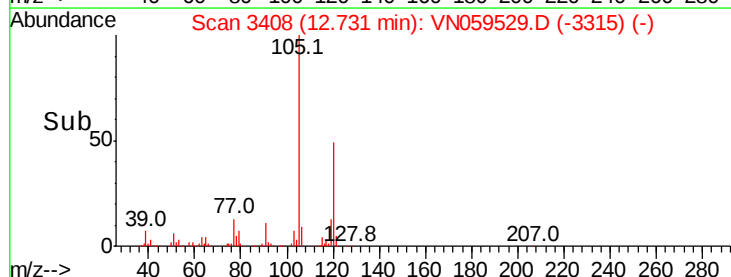
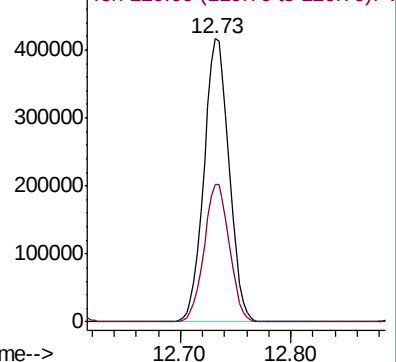
Ion Ratio Lower Upper

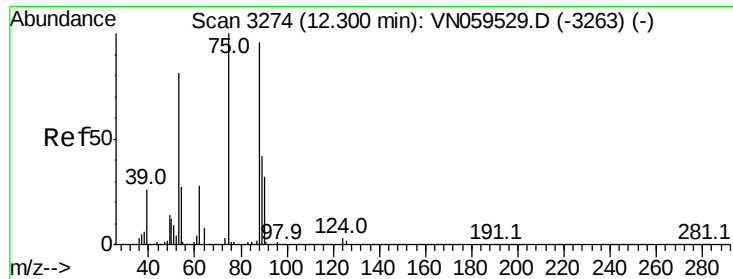
105 100

120 49.0 24.5 73.5



Abundance Ion 105.00 (104.70 to 105.70): VN059529.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 40.231 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

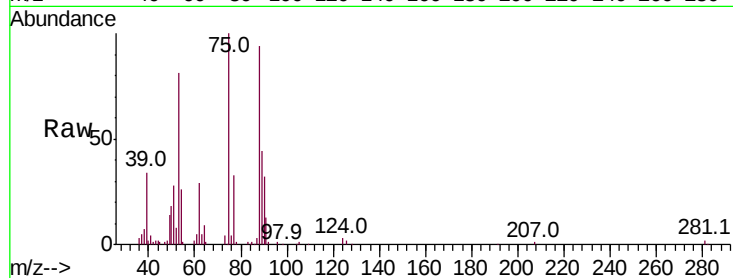
Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 75 Resp: 89427

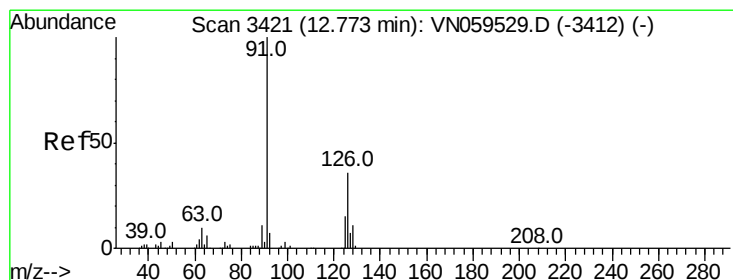
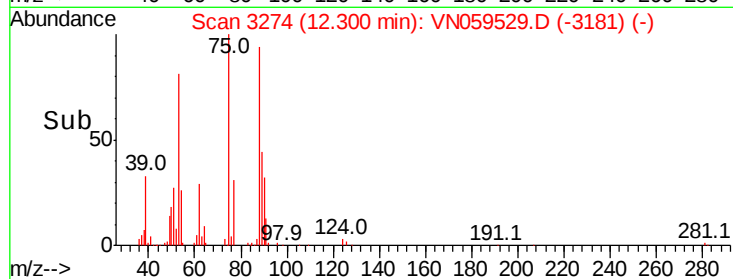
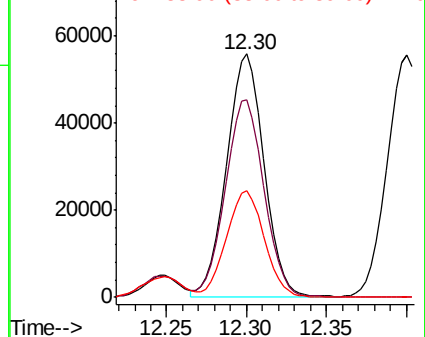
Ion	Ratio	Lower	Upper
75	100		
53	83.8	67.0	100.6
89	44.4	35.5	53.3



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



#82

4-Chlorotoluene

Concen: 40.419 ug/l

RT: 12.77 min Scan# 3421

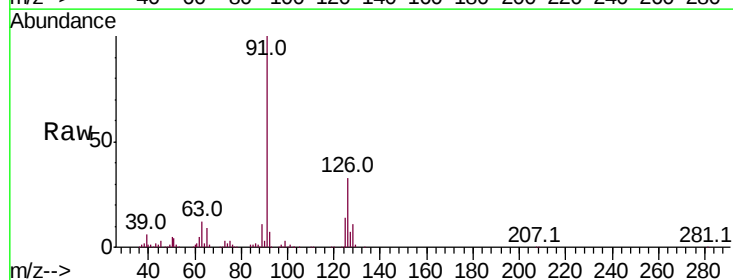
Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

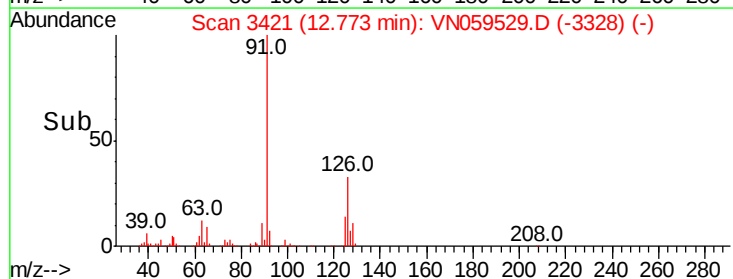
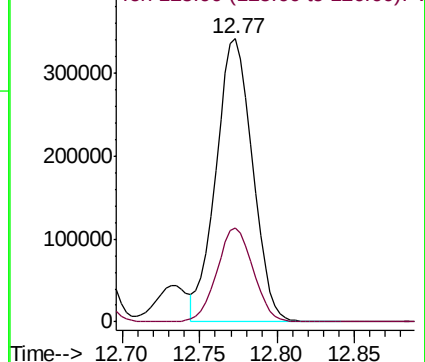
Tgt Ion: 91 Resp: 559254

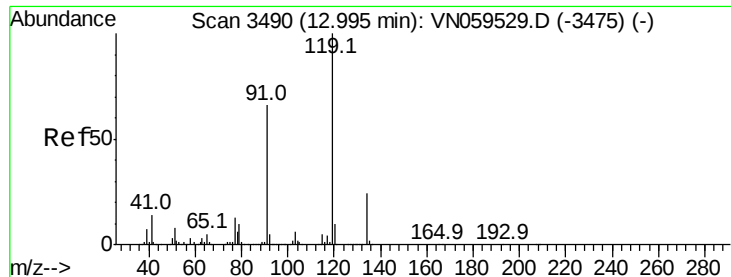
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): VNO





#83

tert-Butylbenzene

Concen: 39.948 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

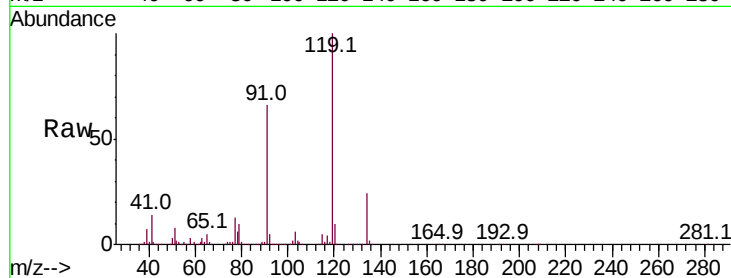
Tot Ion:119 Resp: 551852

Ion Ratio Lower Upper

119 100

91 65.6 32.8 98.4

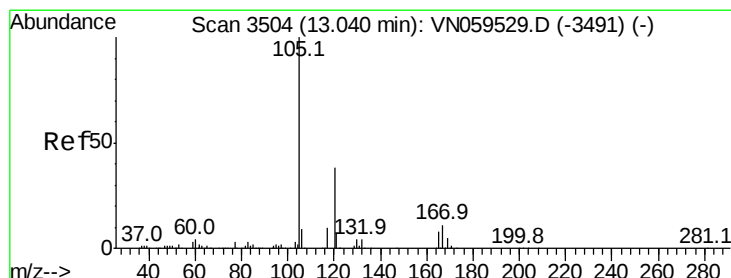
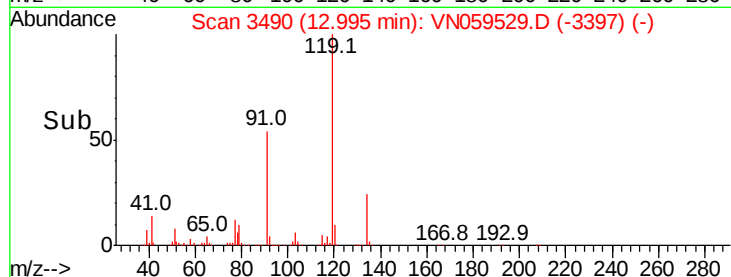
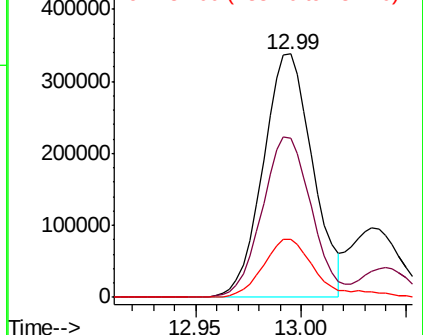
134 25.5 12.8 38.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 42.787 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN059529.D

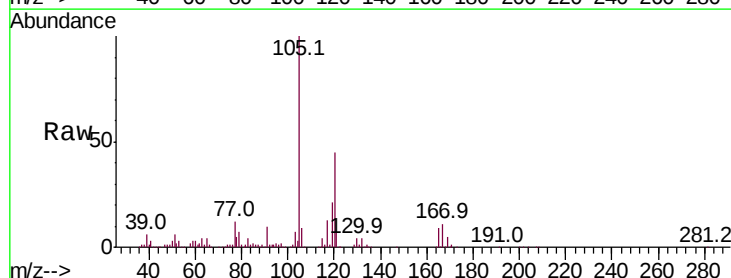
Acq: 9 Dec 2019 15:52

Tgt Ion:105 Resp: 667845

Ion Ratio Lower Upper

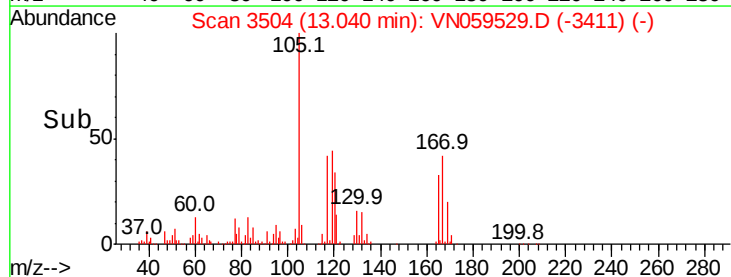
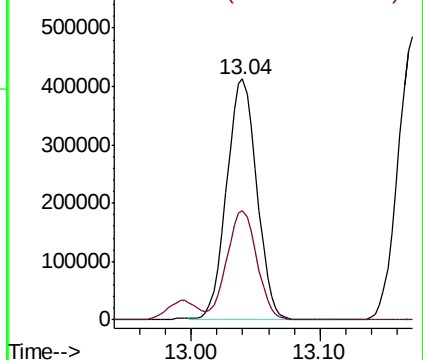
105 100

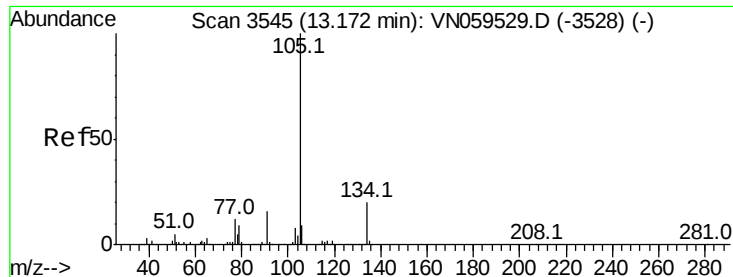
120 45.5 22.8 68.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

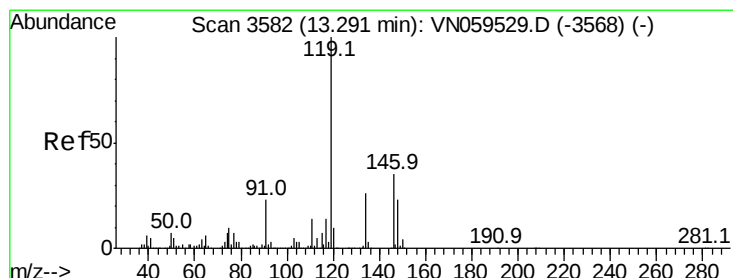
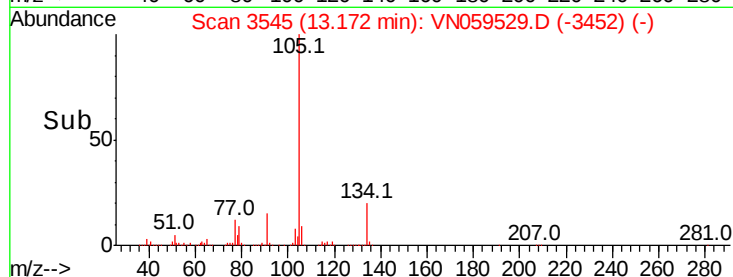
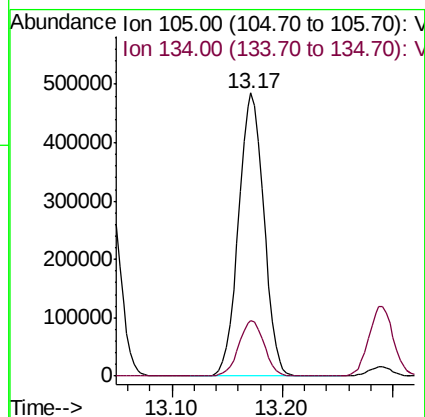
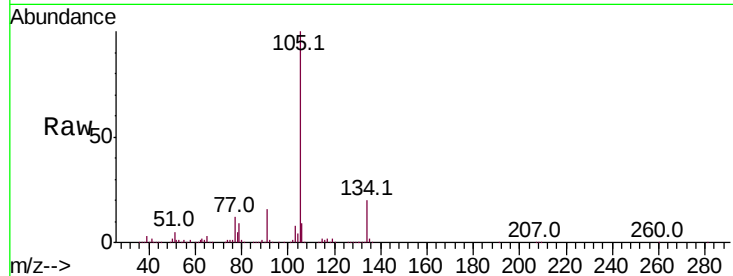




#85
 sec-Butylbenzene
 Concen: 41.865 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

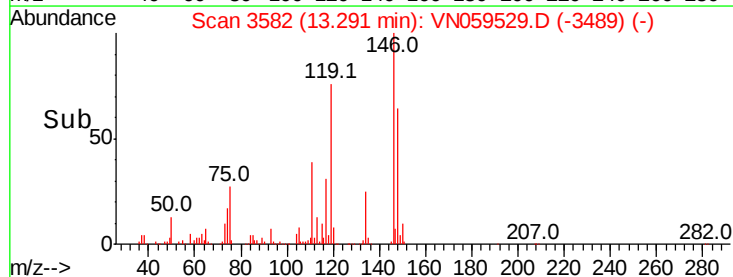
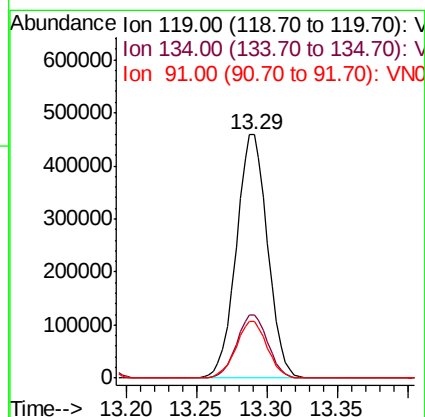
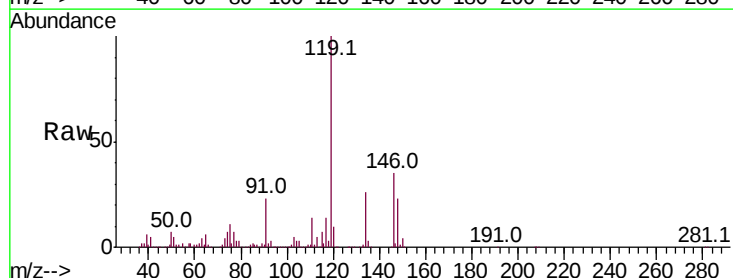
Instrument :
 MSVOA_N
 ClientSampled :

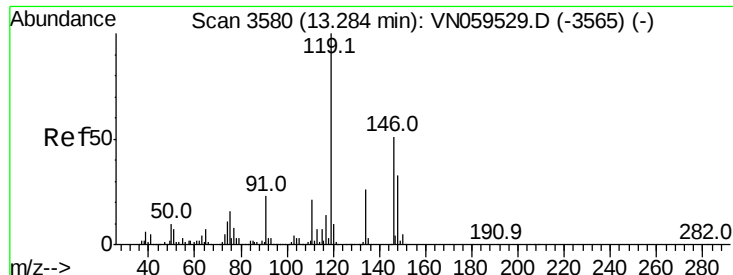
Tot Ion:105 Resp: 768622
 Ion Ratio Lower Upper
 105 100
 134 19.7 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 42.968 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Tgt Ion:119 Resp: 709337
 Ion Ratio Lower Upper
 119 100
 134 26.0 13.0 39.0
 91 23.4 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 41.449 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN059529.D

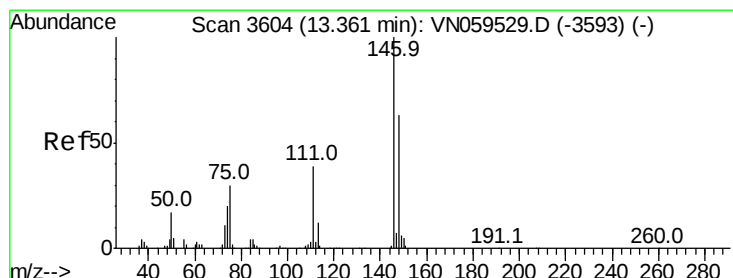
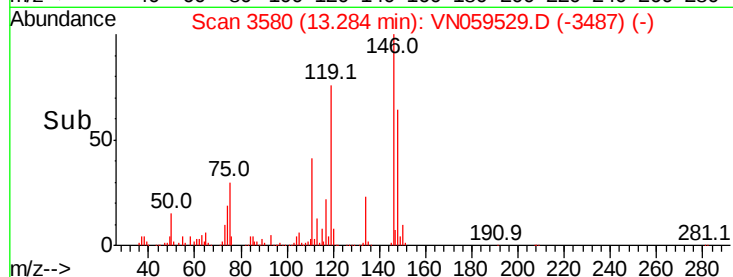
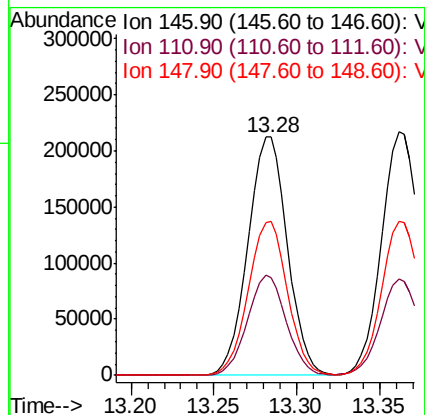
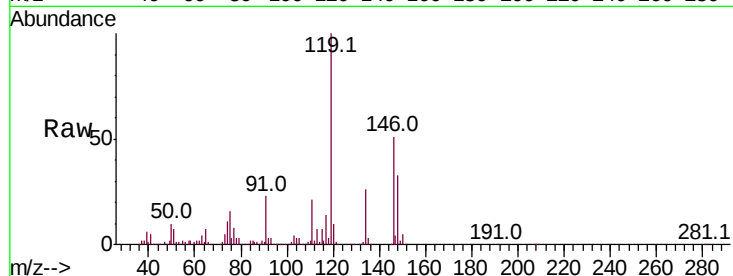
Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	146	Resp:	351593
Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.6	61.8
148	64.0	32.0	96.0



#88

1,4-Dichlorobenzene

Concen: 41.269 ug/l

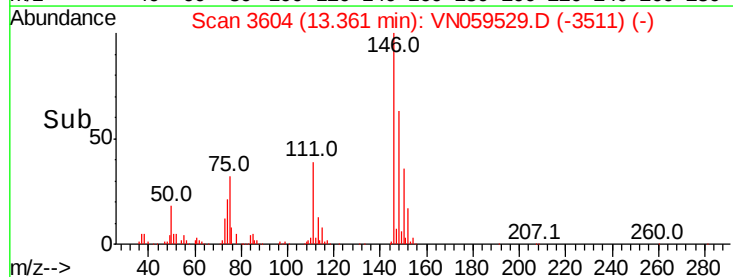
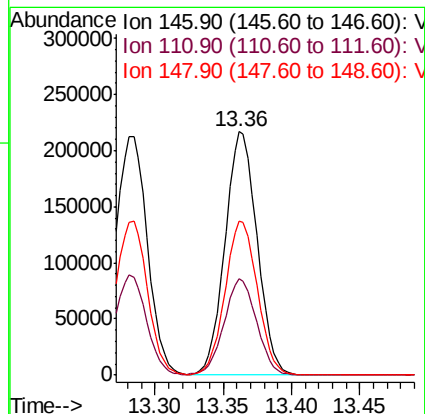
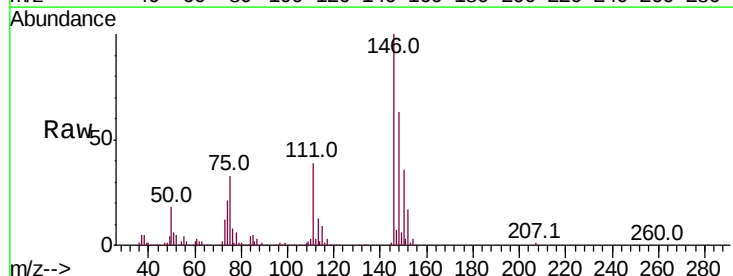
RT: 13.36 min Scan# 3604

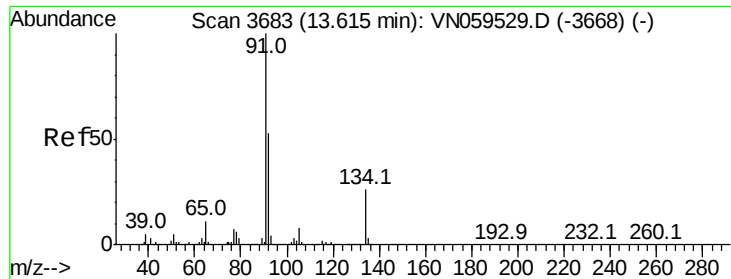
Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Tgt Ion:	146	Resp:	353458
Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	59.9
148	63.8	31.9	95.7





#89

n-Butylbenzene

Concen: 42.963 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampled :

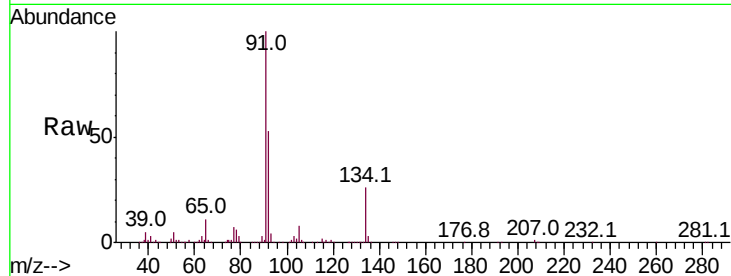
Tot Ion: 91 Resp: 637273

Ion Ratio Lower Upper

91 100

92 52.6 26.3 78.9

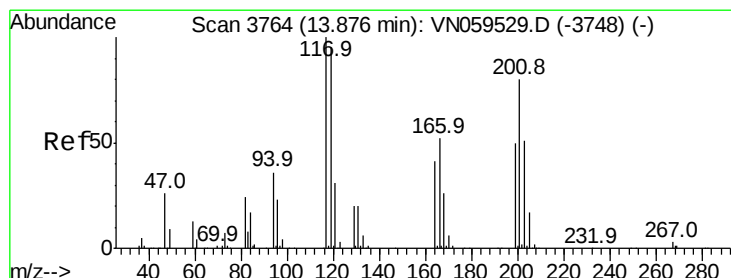
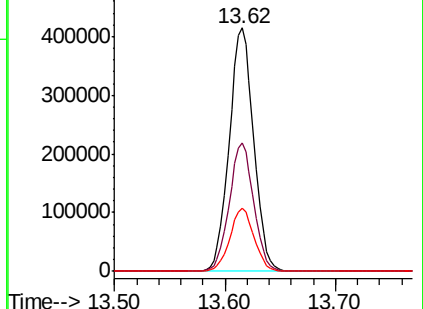
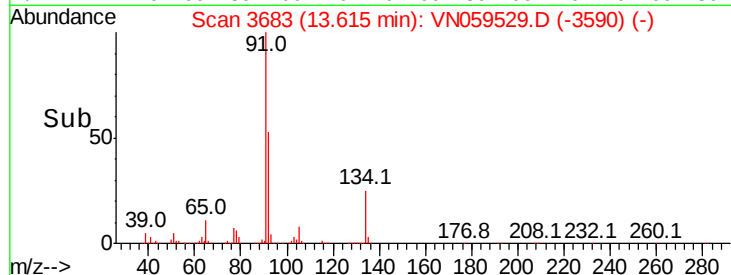
134 25.6 12.8 38.4



Abundance Ion 91.00 (90.70 to 91.70): VN059529.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN059529.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN059529.D (-3668) (-)



#90

Hexachloroethane

Concen: 40.177 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN059529.D

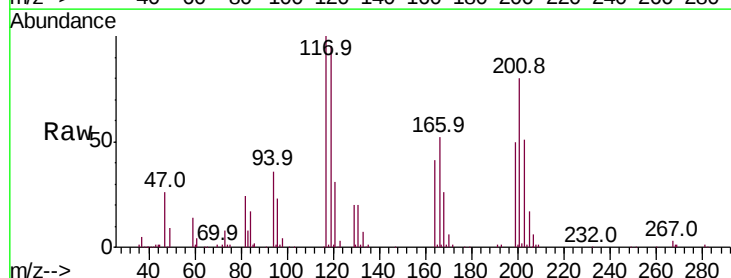
Acq: 9 Dec 2019 15:52

Tgt Ion: 117 Resp: 127804

Ion Ratio Lower Upper

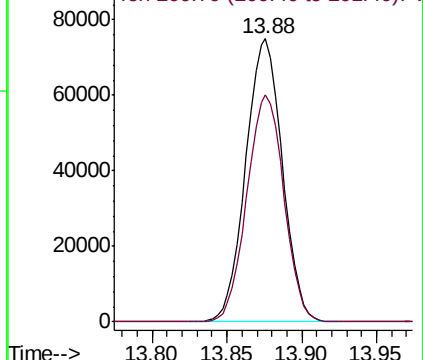
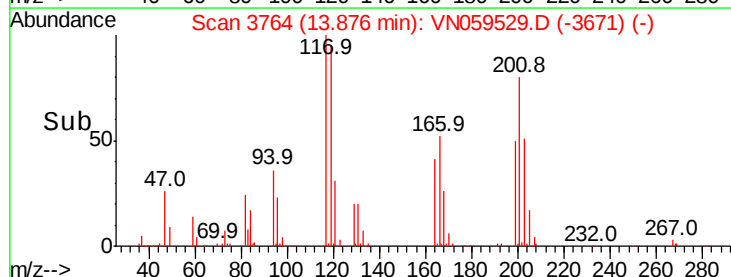
117 100

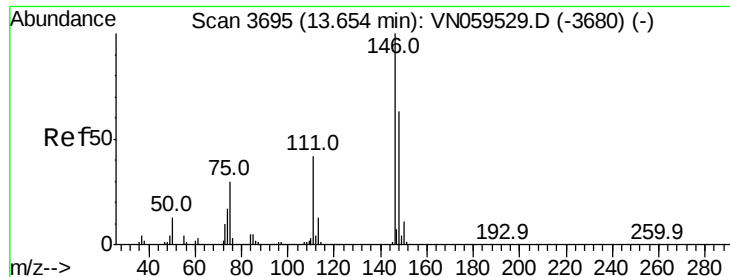
201 81.0 40.5 121.5



Abundance Ion 116.80 (116.50 to 117.50): VN059529.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN059529.D (-3748) (-)





#91

1,2-Dichlorobenzene

Concen: 41.724 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

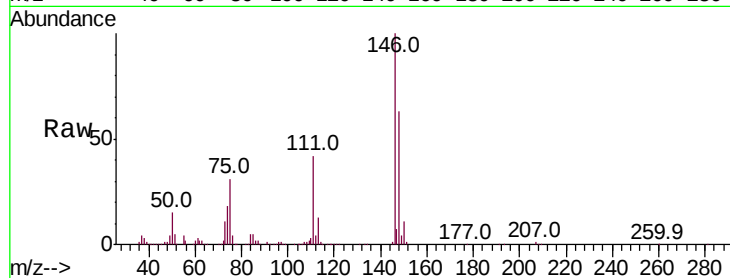
Tot Ion:146 Resp: 338790

Ion Ratio Lower Upper

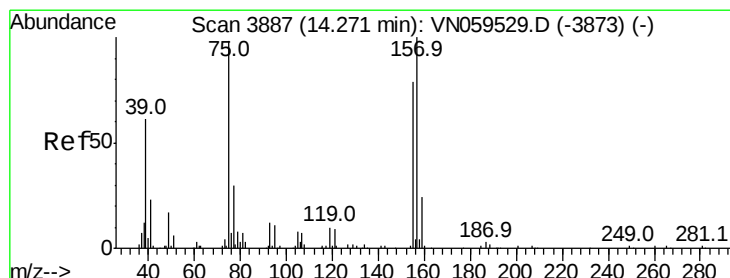
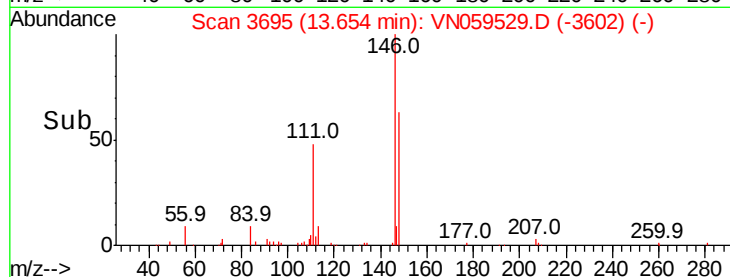
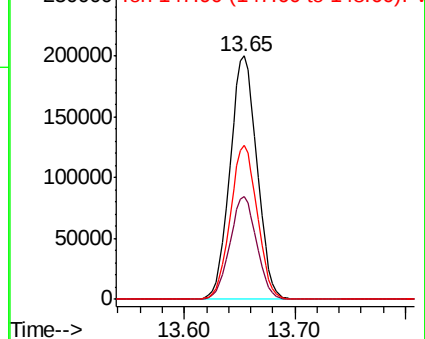
146 100

111 41.8 20.9 62.7

148 63.2 31.6 94.8



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 38.876 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

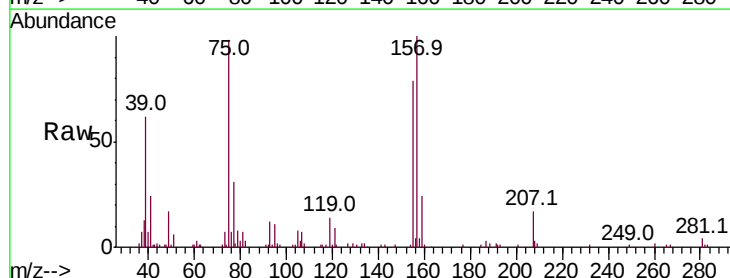
Tgt Ion: 75 Resp: 57322

Ion Ratio Lower Upper

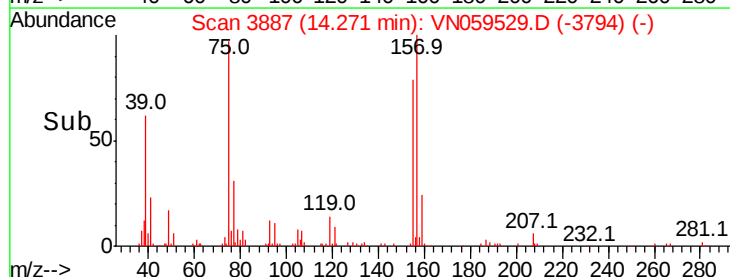
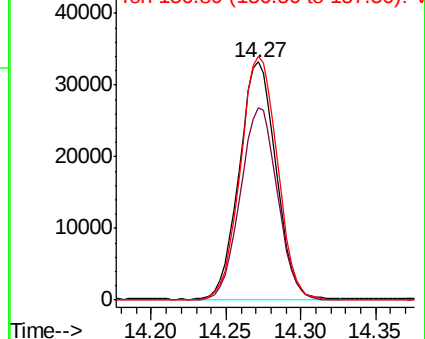
75 100

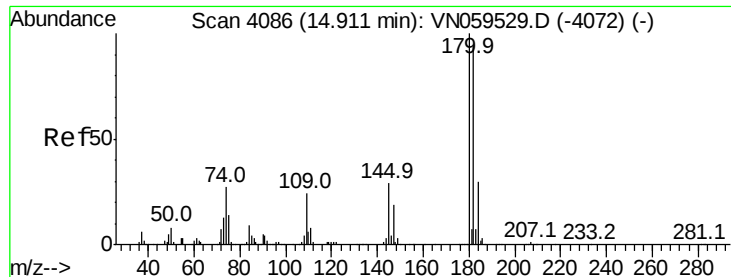
155 80.7 40.4 121.1

157 102.2 51.1 153.3



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

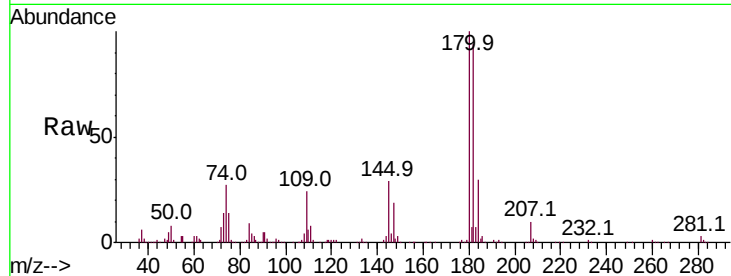




#93
 1,2,4-Trichlorobenzene
 Concen: 45.965 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.3	142.0
145	29.8	14.9	44.7

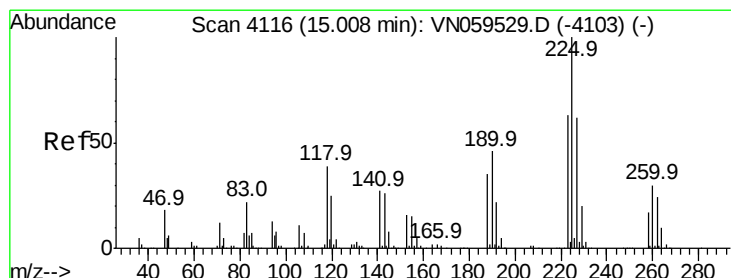
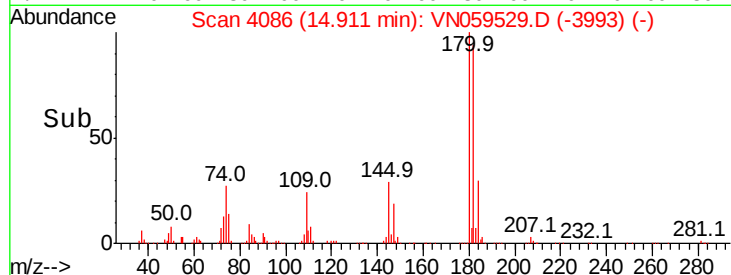
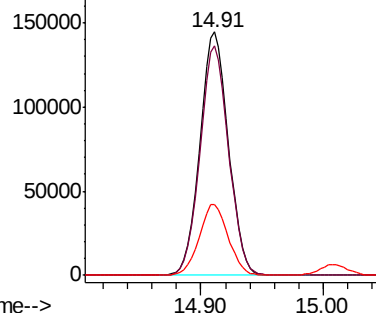


Abundance

Ion 179.80 (179.50 to 180.50): V

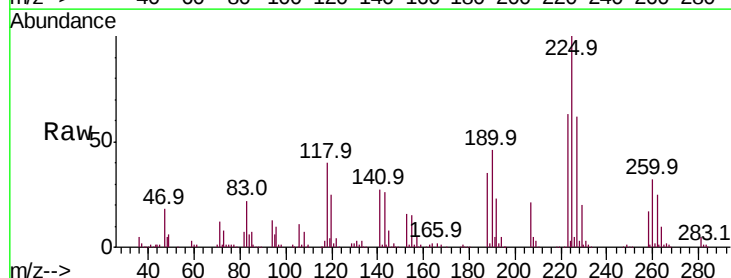
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 39.896 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN059529.D
 Acq: 9 Dec 2019 15:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.3	93.9
227	63.3	31.6	95.0

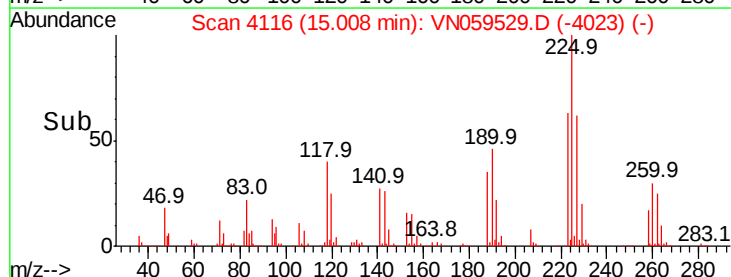
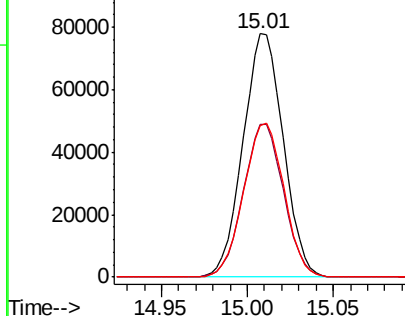


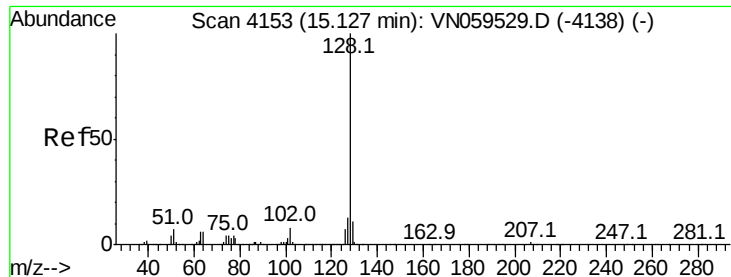
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 43.948 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

Instrument :

MSVOA_N

ClientSampleId :

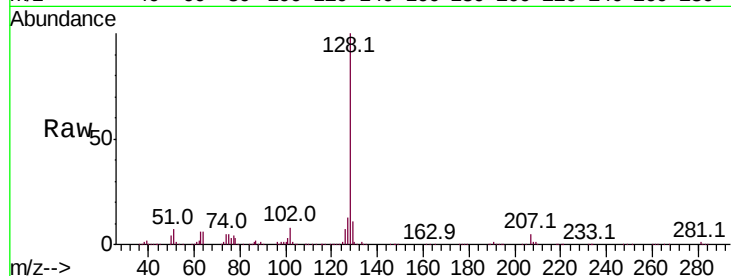
Tot Ion:128 Resp: 658079

Ion Ratio Lower Upper

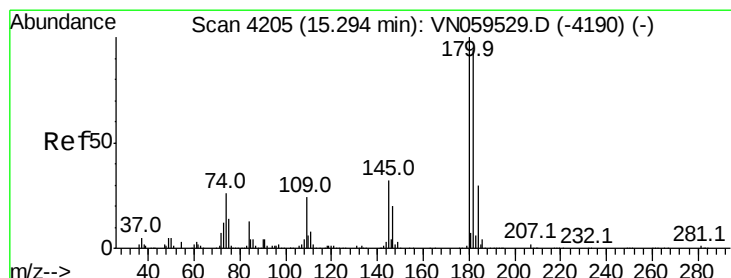
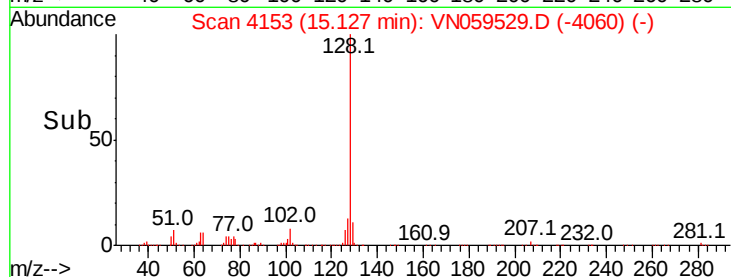
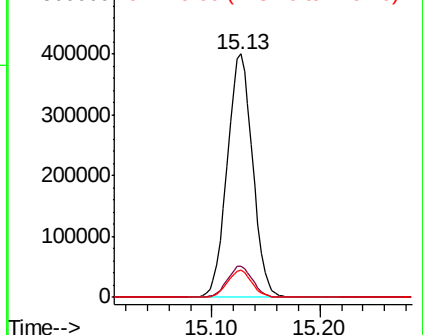
128 100

127 12.8 10.2 15.4

129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 41.406 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN059529.D

Acq: 9 Dec 2019 15:52

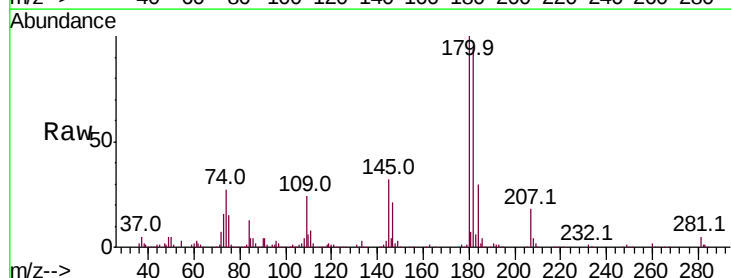
Tgt Ion:180 Resp: 226195

Ion Ratio Lower Upper

180 100

182 94.3 47.1 141.4

145 31.6 15.8 47.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

