

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016327.D
 Acq On : 29 May 2020 21:20
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 00:06:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 00:00:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	99194	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	93223	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	44375	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	28891	4.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.60%
7) Chloroethane-d5	1.58	69	22578	4.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.60%
11) 1,1-Dichloroethene-d2	2.12	63	55188	4.61	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.20%
20) 2-Butanone-d5	3.96	46	84549	53.50	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.00%
24) Chloroform-d	4.37	84	59995	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	5.06	65	32200	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.07	84	113985	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.09	67	35716	5.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.00%
41) Toluene-d8	7.33	98	108997	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
45) trans-1,3-Dichloropropene-	7.64	79	12969	4.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.40%
48) 2-Hexanone-d5	8.12	63	68837	56.36	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.72%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	26708	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	37105	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	42663	4.886	ug/L 98
3) Chloromethane	1.25	50	45784	4.796	ug/L 100
5) Vinyl chloride	1.32	62	41887	4.822	ug/L 99
6) Bromomethane	1.53	94	21044	4.306	ug/L 99
8) Chloroethane	1.60	64	24574	5.063	ug/L 98
9) Trichlorofluoromethane	1.77	101	55947	4.981	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	29179	4.767	ug/L 100
12) 1,1-Dichloroethene	2.13	96	27535	4.706	ug/L 94
13) Acetone	2.25	43	48168	49.242	ug/L 85
14) Carbon disulfide	2.31	76	79802	4.400	ug/L 99
15) Methyl Acetate	2.46	43	13719	5.488	ug/L 94
16) Methylene chloride	2.52	84	30572	4.558	ug/L 96
17) Methyl tert-butyl Ether	2.79	73	75084	5.212	ug/L 97
18) trans-1,2-Dichloroethene	2.77	96	30528	4.768	ug/L 95
19) 1,1-Dichloroethane	3.21	63	58109	4.778	ug/L 98
21) 2-Butanone	4.05	43	96009	55.175	ug/L 91
22) cis-1,2-Dichloroethene	3.93	96	36542	4.826	ug/L 96

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 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 00:06:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 00:00:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

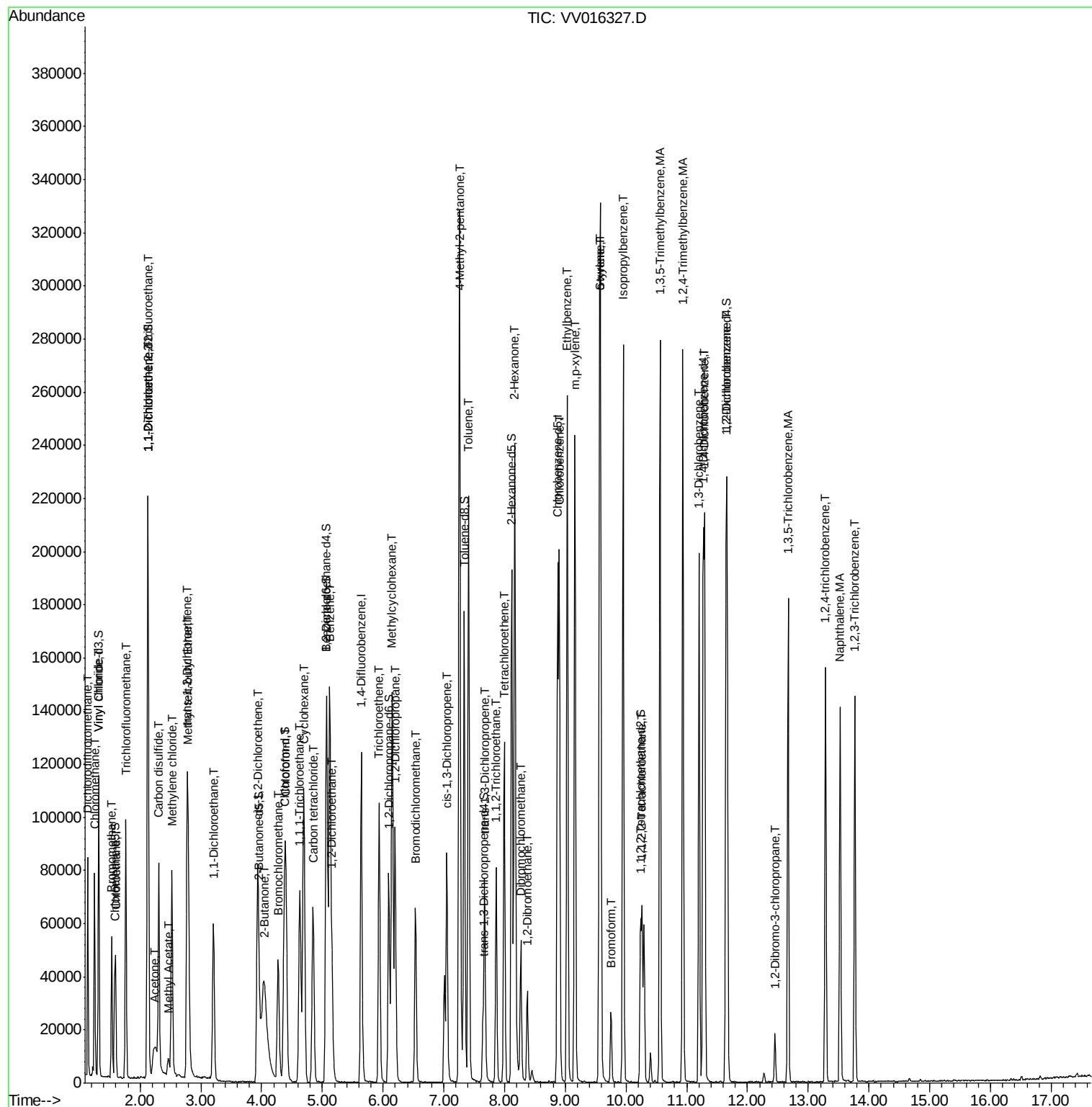
23) Bromochloromethane	4.27	128	14600	5.079	ug/L	86
25) Chloroform	4.40	83	65981	5.126	ug/L	100
27) 1,2-Dichloroethane	5.16	62	44775	5.321	ug/L #	96
29) 1,1,1-Trichloroethane	4.63	97	56650	5.120	ug/L	99
30) Cyclohexane	4.69	56	60671	5.117	ug/L	98
31) Carbon tetrachloride	4.85	117	46230	4.931	ug/L	96
33) Benzene	5.12	78	140648	5.243	ug/L	100
34) Trichloroethene	5.94	95	36909	5.281	ug/L	98
35) Methylcyclohexane	6.15	83	58163	4.935	ug/L	99
37) 1,2-Dichloropropane	6.20	63	34511	5.245	ug/L	99
38) Bromodichloromethane	6.53	83	42993	5.310	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	46260	4.964	ug/L	99
40) 4-Methyl-2-pentanone	7.26	43	238463	58.253	ug/L	99
42) Toluene	7.41	91	153121	5.234	ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	140807	5.287	ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	144152	5.255	ug/L	99
46) trans-1,3-Dichloropropene	7.67	75	39834	5.145	ug/L	99
47) 1,1,2-Trichloroethane	7.86	97	23883	5.519	ug/L	97
49) Tetrachloroethene	7.99	164	25104	5.003	ug/L	96
50) 2-Hexanone	8.17	43	169349	59.321	ug/L	99
51) Dibromochloromethane	8.27	129	24833	5.418	ug/L	98
52) 1,2-Dibromoethane	8.38	107	22297	5.484	ug/L	98
53) Chlorobenzene	8.90	112	93589	5.177	ug/L	99
54) Ethylbenzene	9.03	91	172194	5.280	ug/L	98
55) m,p-xylene	9.16	106	64507	5.275	ug/L	99
56) o-xylene	9.56	106	61899	5.312	ug/L	99
57) Styrene	9.58	104	104974	5.413	ug/L	98
58) Isopropylbenzene	9.95	105	165609	5.188	ug/L	99
60) 1,1,2,2-Tetrachloroethane	10.26	83	30334	5.638	ug/L	92
62) Bromoform	9.75	173	10913	5.719	ug/L	97
63) 1,3-Dichlorobenzene	11.20	146	70461	5.203	ug/L	97
64) 1,4-Dichlorobenzene	11.29	146	71200	5.174	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	65778	5.374	ug/L	99
67) 1,2-Dibromo-3-chloropropan	12.45	75	4652	5.626	ug/L	98
68) 1,3,5-Trichlorobenzene	12.67	180	49110	5.125	ug/L	97
69) 1,2,4-trichlorobenzene	13.28	180	41282	4.906	ug/L	99
70) Naphthalene	13.53	128	102603	5.581	ug/L	99
71) 1,2,3-Trichlorobenzene	13.77	180	38669	5.095	ug/L	99

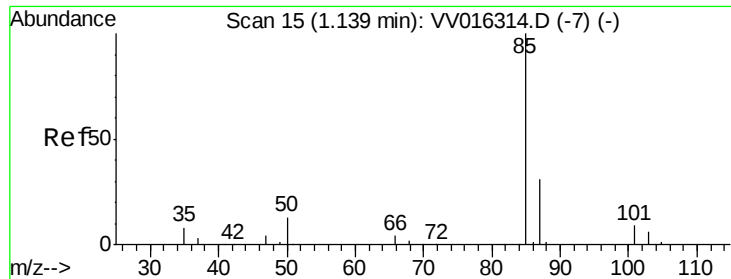
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampled :

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QLast Update : Sat May 30 00:00:26 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.886 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

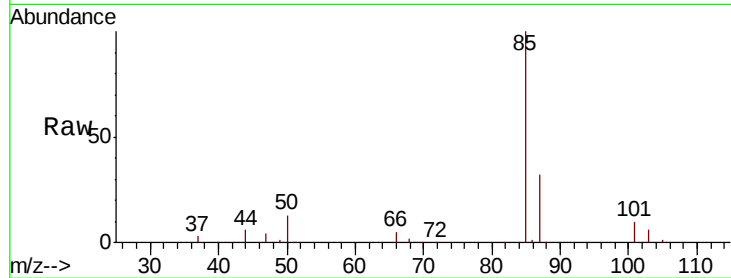
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 42663

Ion Ratio Lower Upper

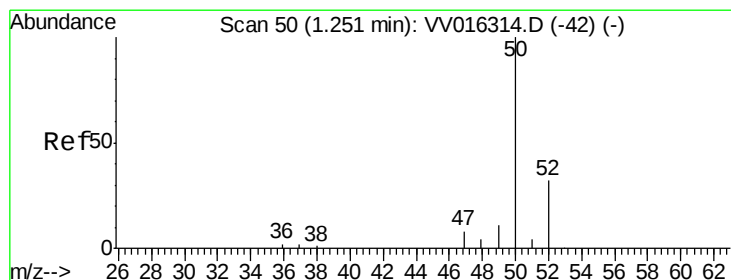
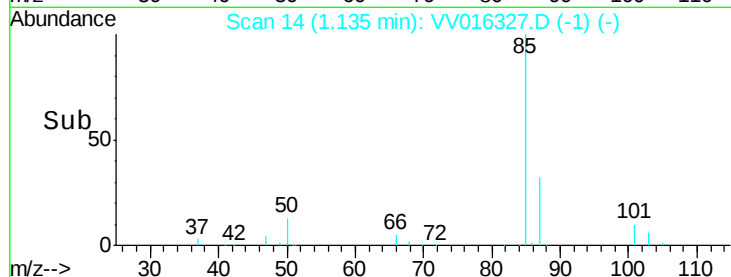
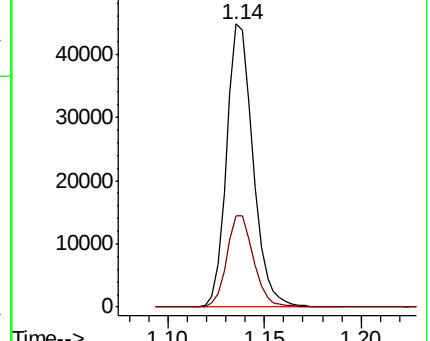
85 100

87 32.8 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.796 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV016327.D

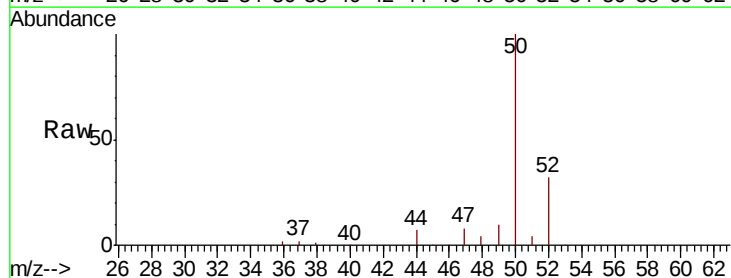
Acq: 29 May 2020 21:20

Tgt Ion: 50 Resp: 45784

Ion Ratio Lower Upper

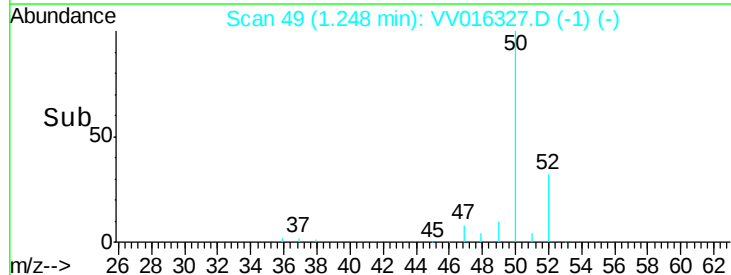
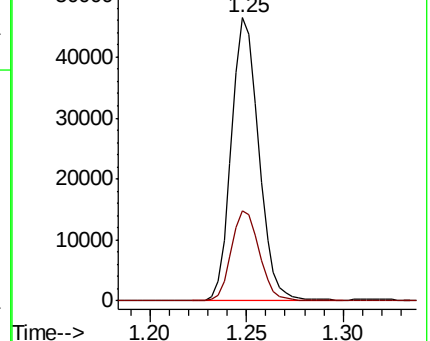
50 100

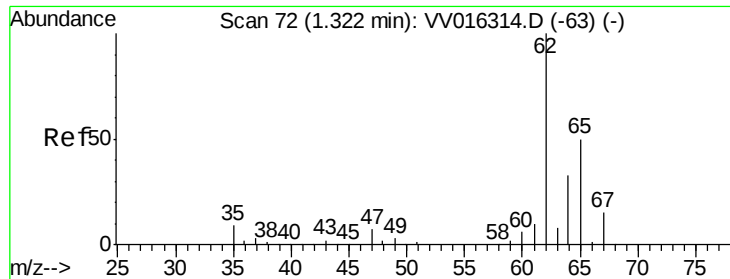
52 31.9 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.822 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

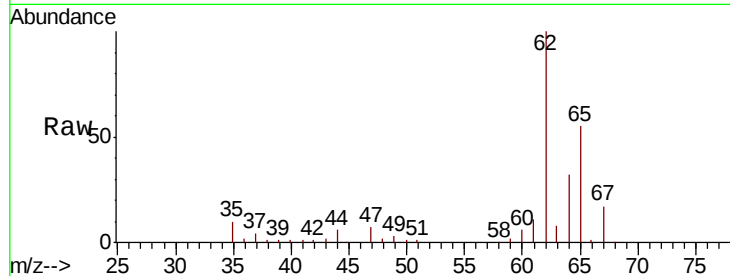
ClientSampleId :

Tot Ion: 62 Resp: 41887

Ion Ratio Lower Upper

62 100

64 32.0 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

40000

30000

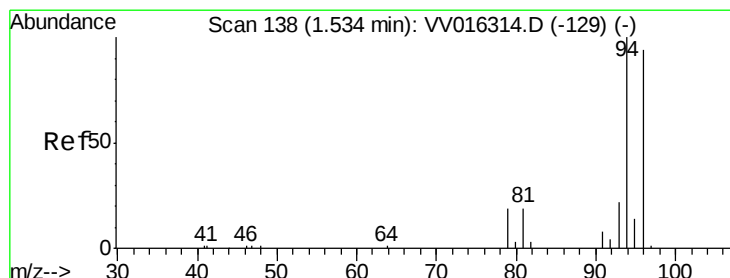
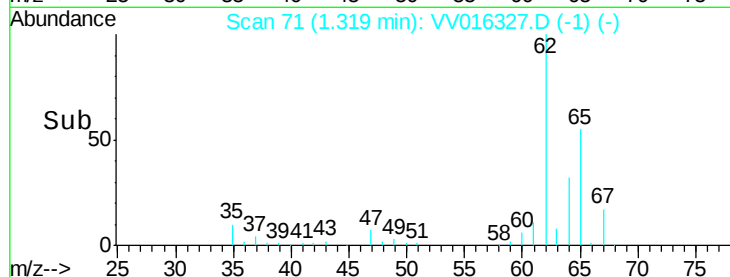
20000

10000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 4.306 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV016327.D

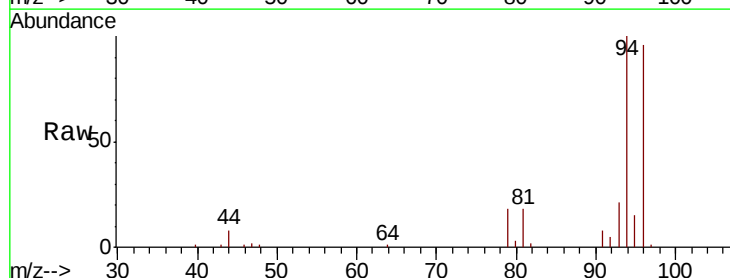
Acq: 29 May 2020 21:20

Tgt Ion: 94 Resp: 21044

Ion Ratio Lower Upper

94 100

96 95.7 67.7 125.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

20000

15000

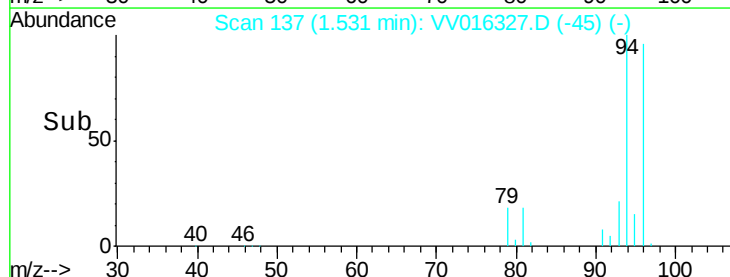
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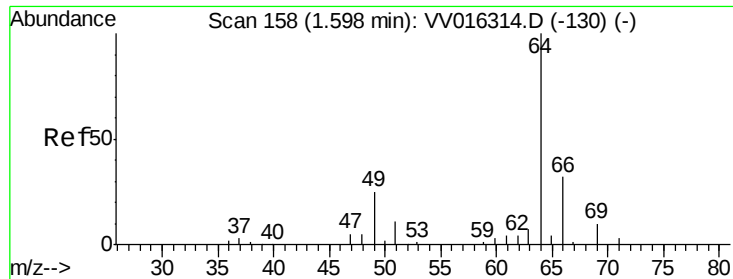
5000

0

1.50 1.55 1.60

Time-->

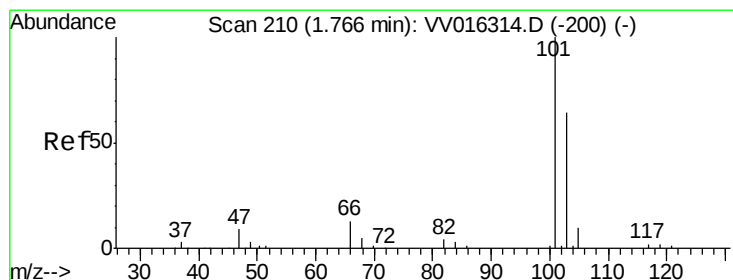
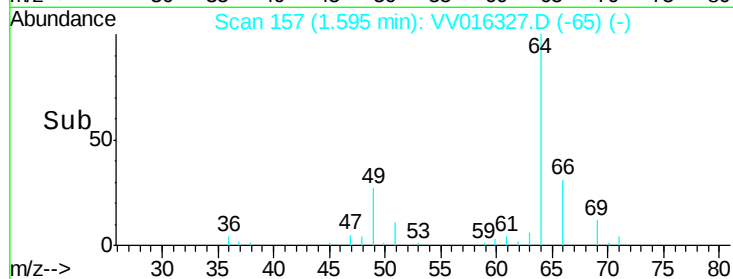
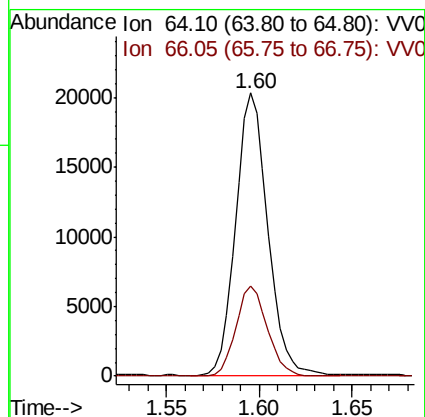
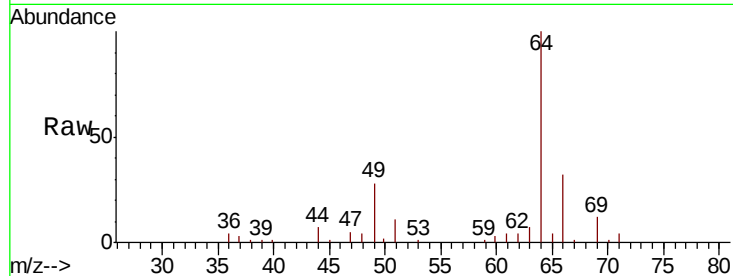




#8
Chloroethane
Concen: 5.063 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

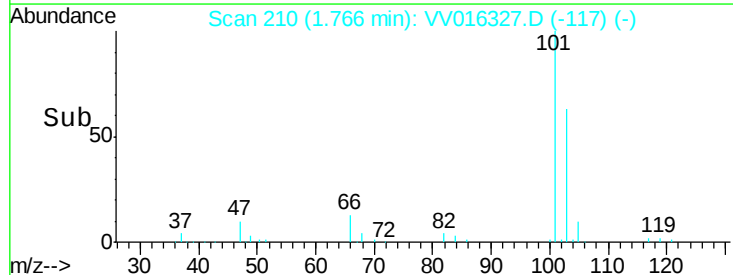
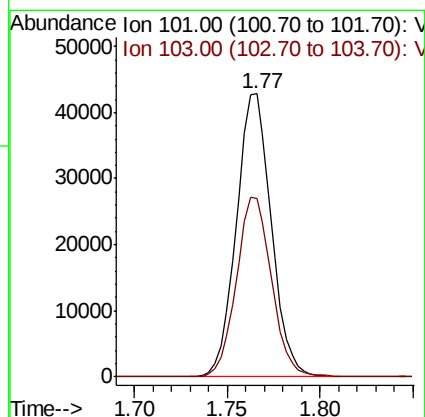
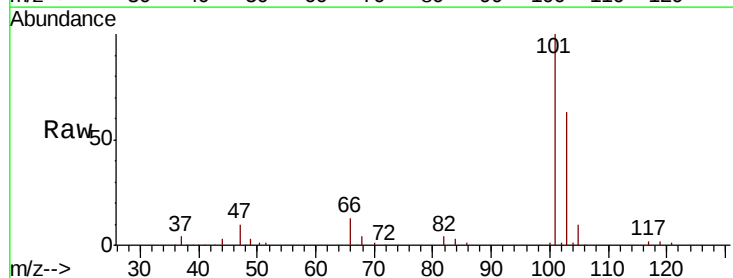
Instrument :
MSVOA_V
ClientSampleId :

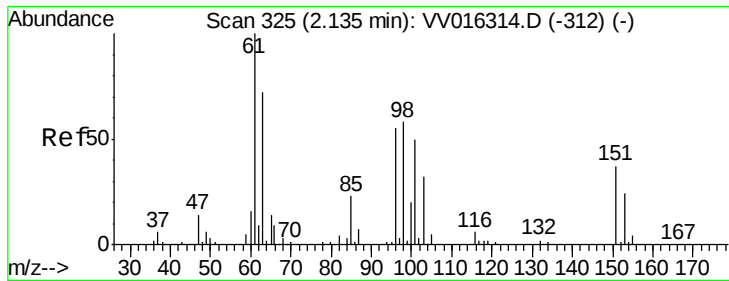
Tot Ion: 64 Resp: 24574
Ion Ratio Lower Upper
64 100
66 31.7 22.9 42.5



#9
Trichlorofluoromethane
Concen: 4.981 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion:101 Resp: 55947
Ion Ratio Lower Upper
101 100
103 64.0 51.9 77.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.767 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

ClientSampled :

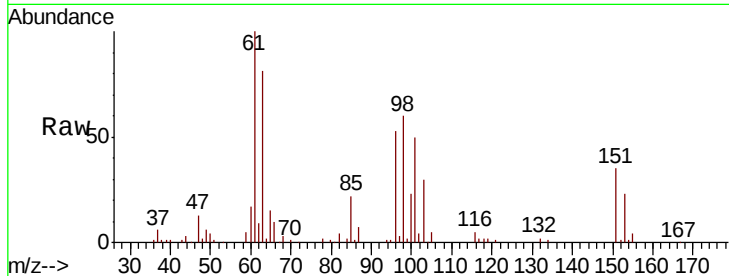
Tot Ion:101 Resp: 29179

Ion Ratio Lower Upper

101 100

85 43.8 35.0 52.6

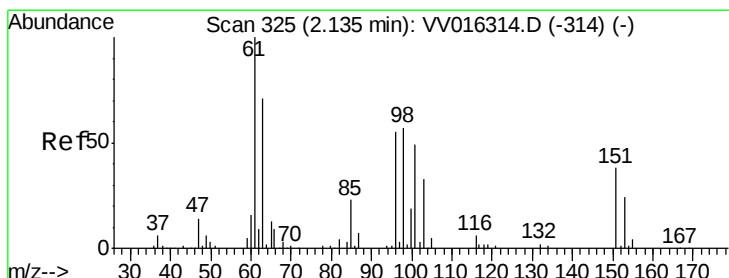
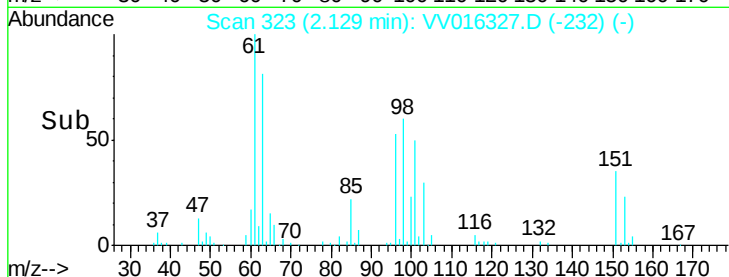
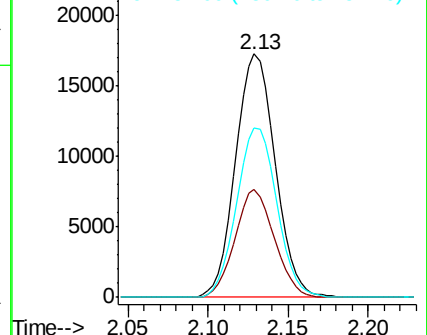
151 70.5 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.706 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

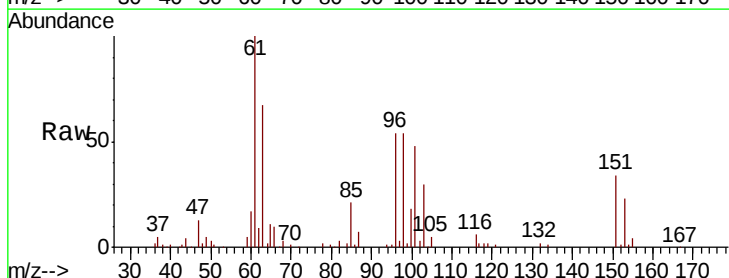
Tgt Ion: 96 Resp: 27535

Ion Ratio Lower Upper

96 100

61 184.4 124.9 231.9

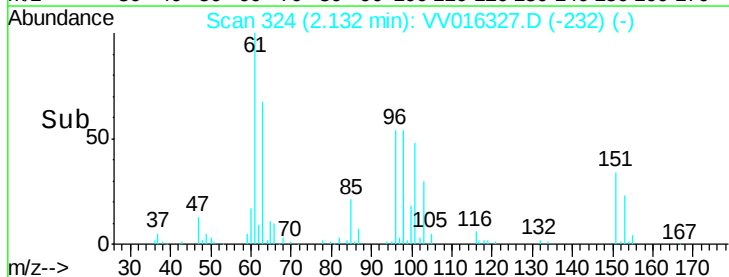
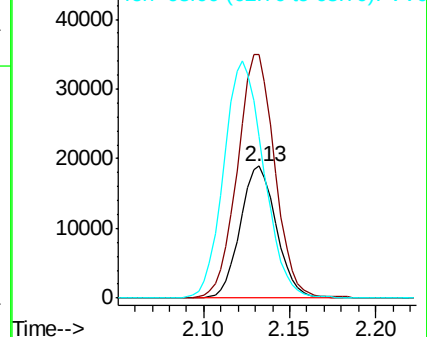
63 123.0 80.4 149.2

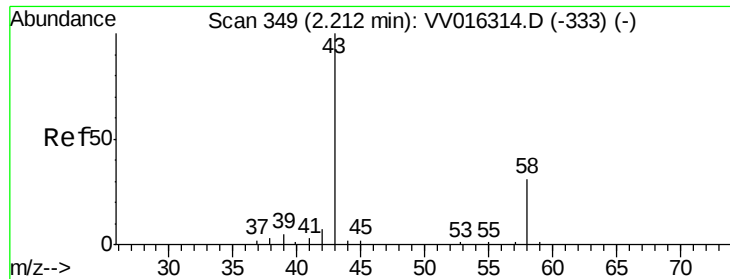


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 49.242 ug/L

RT: 2.25 min Scan# 360

Delta R.T. 0.04 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

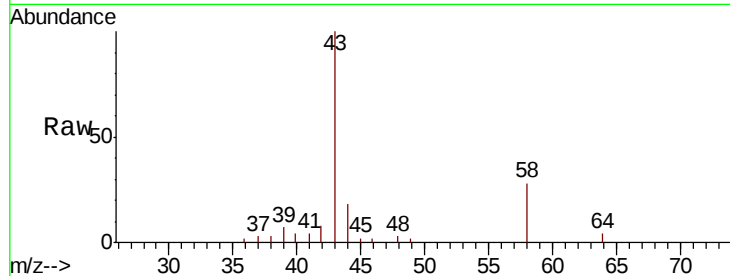
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 48168

Ion Ratio Lower Upper

43 100

58 16.9 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV016314.D (-333) (-)

Ion 58.05 (57.75 to 58.75): VV016314.D (-333) (-)

2.25

8000

6000

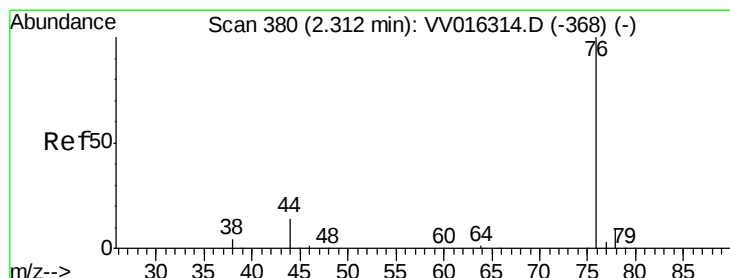
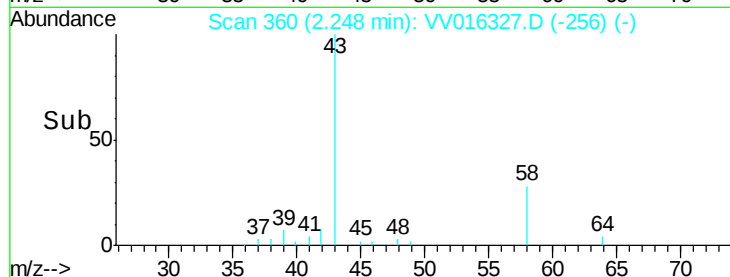
4000

2000

0

Time-->

2.10 2.20 2.30 2.40 2.50



#14

Carbon disulfide

Concen: 4.400 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV016327.D

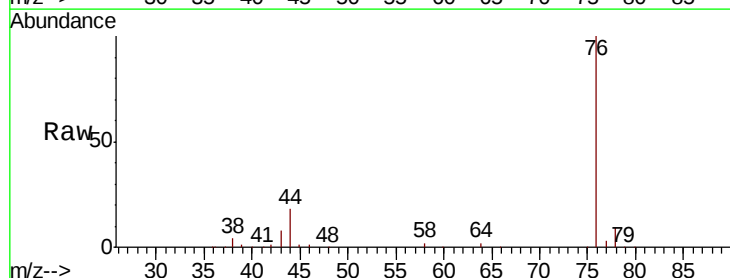
Acq: 29 May 2020 21:20

Tgt Ion: 76 Resp: 79802

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV016314.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV016314.D (-368) (-)

2.31

60000

50000

40000

30000

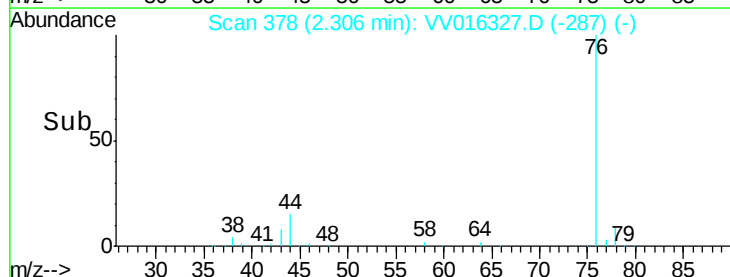
20000

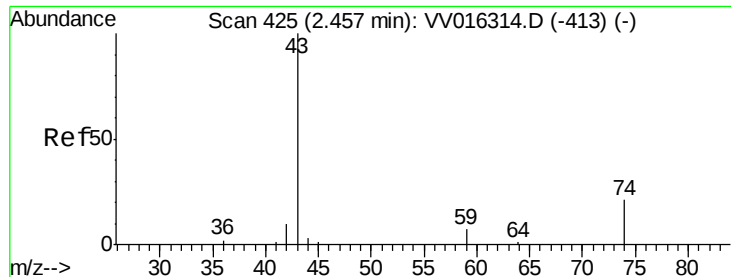
10000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methvl Acetate

Concen: 5.488 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

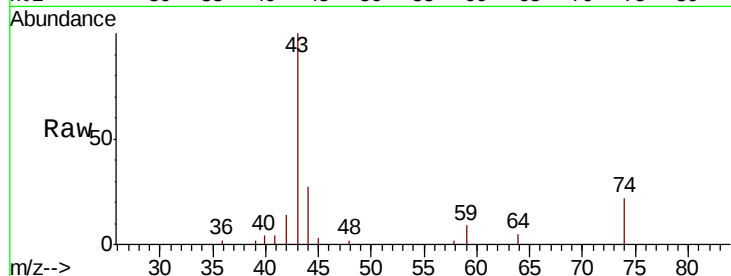
ClientSampleId :

Tot Ion: 43 Resp: 13719

Ion Ratio Lower Upper

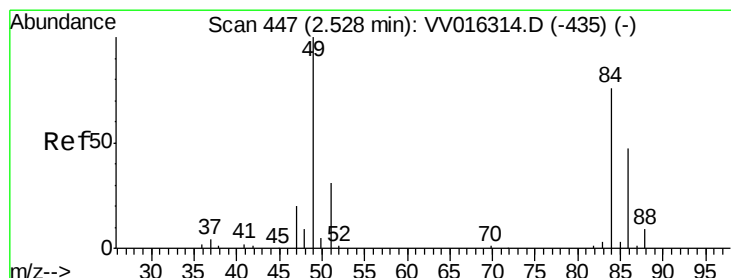
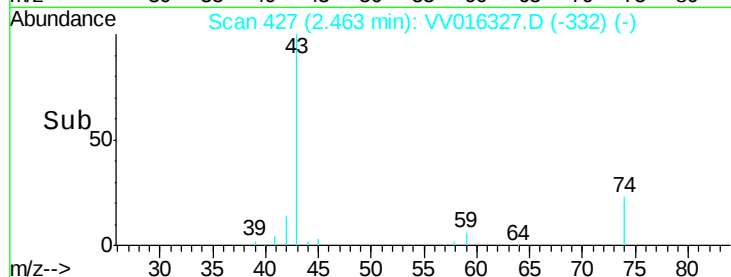
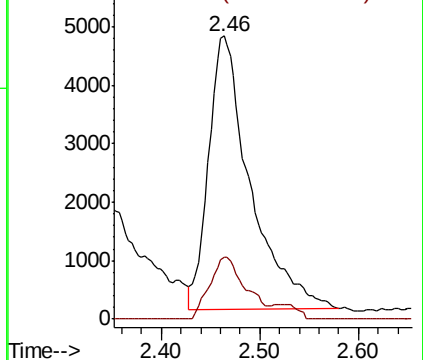
43 100

74 19.8 18.1 27.1



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 4.558 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.01 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

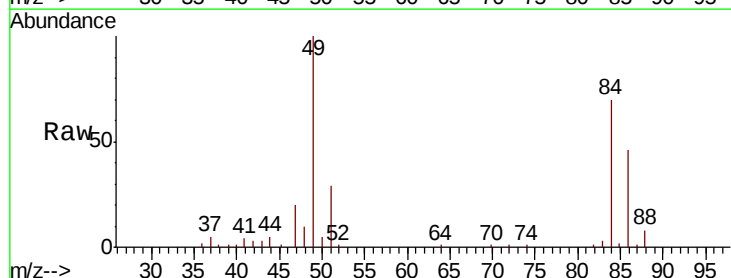
Tgt Ion: 84 Resp: 30572

Ion Ratio Lower Upper

84 100

86 65.5 44.9 83.5

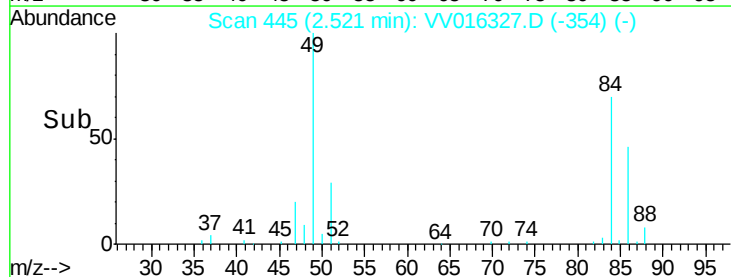
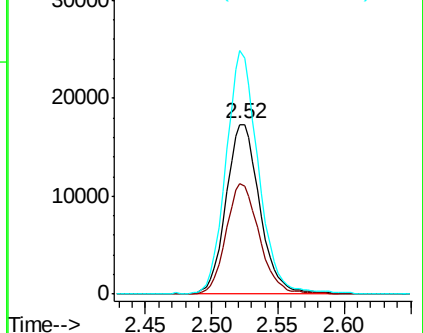
49 143.6 96.7 179.7

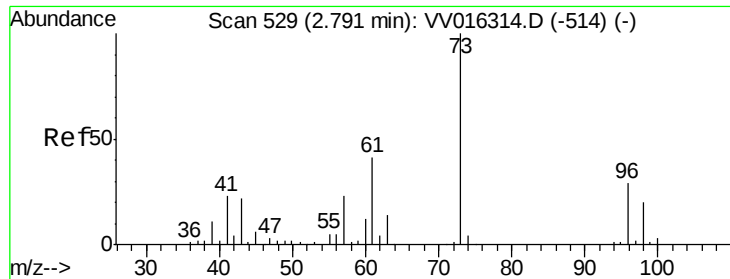


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

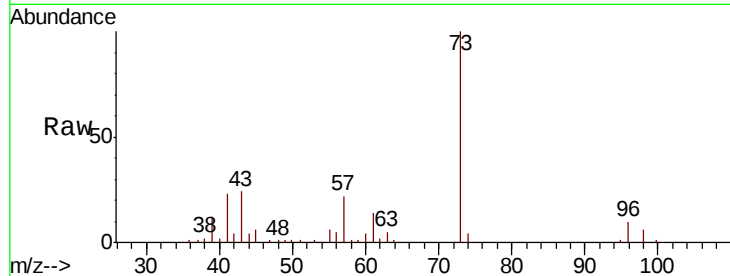




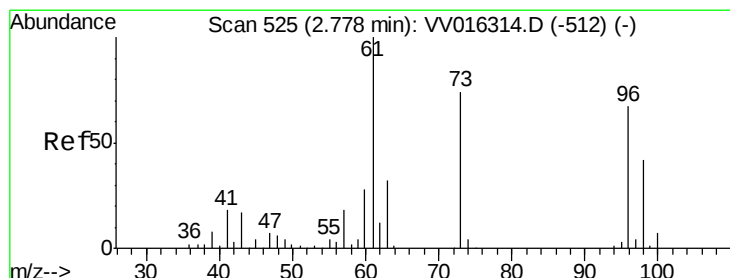
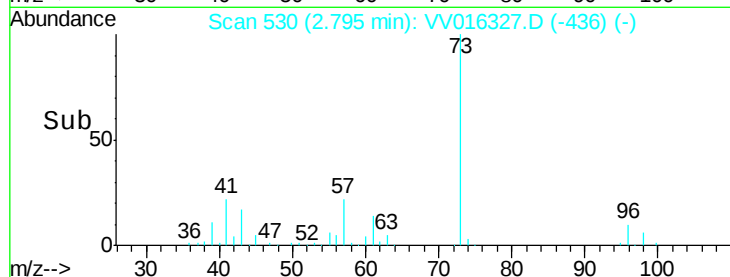
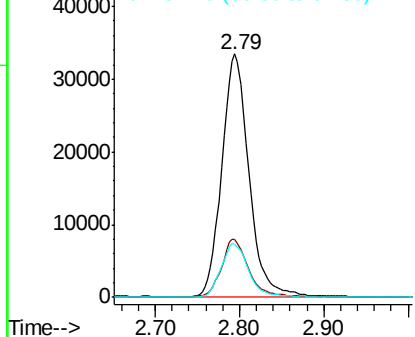
#17
Methvl tert-butvl Ether
Concen: 5.212 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 73 Resp: 75084
Ion Ratio Lower Upper
73 100
43 24.2 17.8 26.8
57 22.3 18.9 28.3

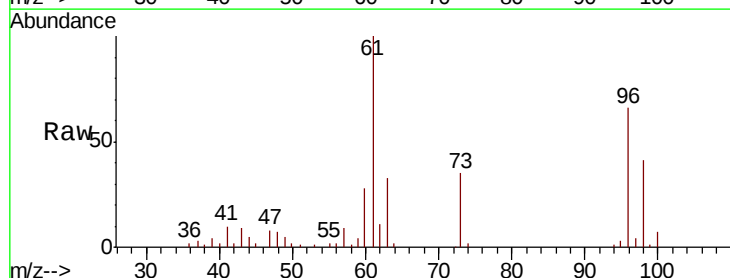


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

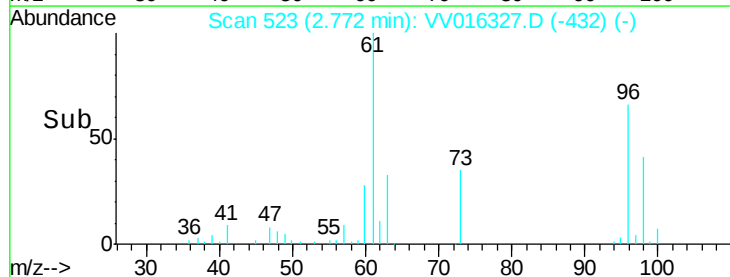
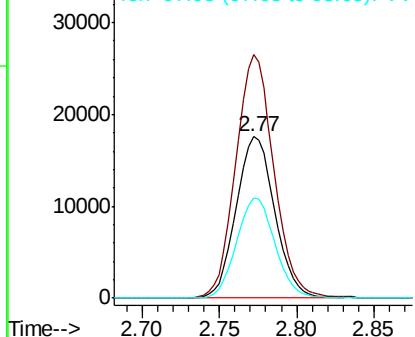


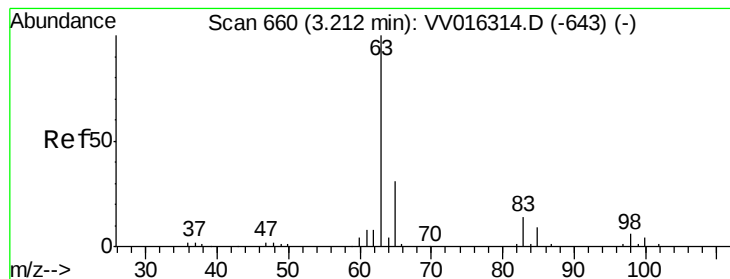
#18
trans-1,2-Dichloroethene
Concen: 4.768 ug/L
RT: 2.77 min Scan# 523
Delta R.T. -0.01 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion: 96 Resp: 30528
Ion Ratio Lower Upper
96 100
61 151.2 99.8 185.4
98 62.0 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 4.778 ug/L

RT: 3.21 min Scan# 658

Delta R.T. -0.01 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

ClientSampleId :

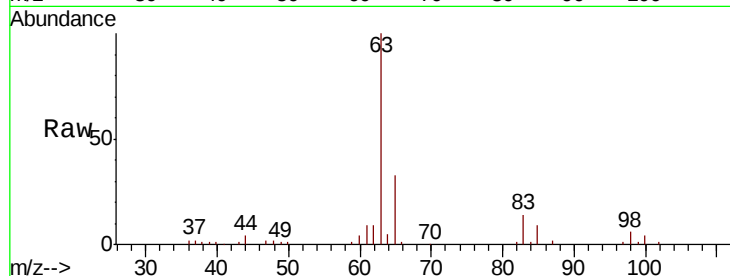
Tot Ion: 63 Resp: 58109

Ion Ratio Lower Upper

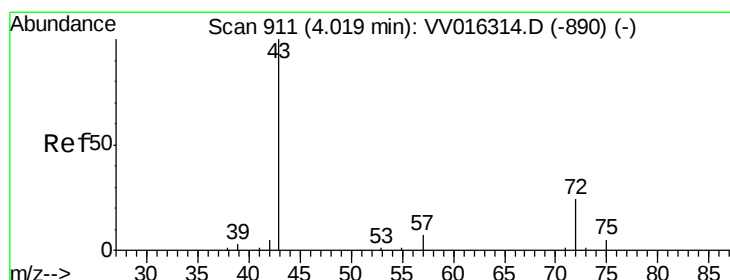
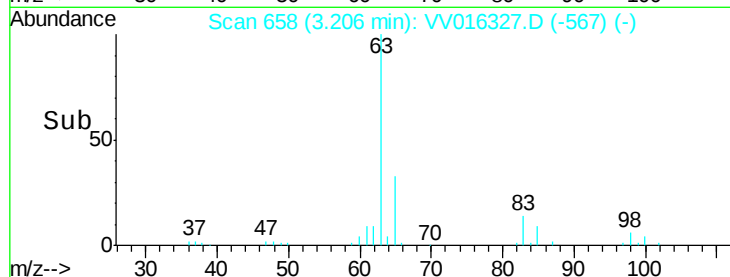
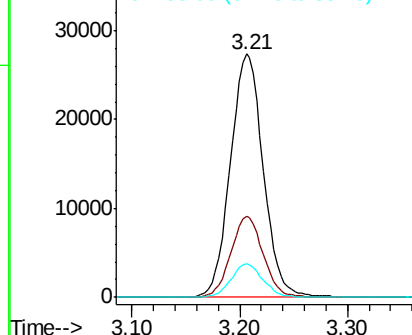
63 100

65 33.5 22.3 41.5

83 14.0 9.4 17.4



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 55.175 ug/L

RT: 4.05 min Scan# 921

Delta R.T. 0.03 min

Lab File: VV016327.D

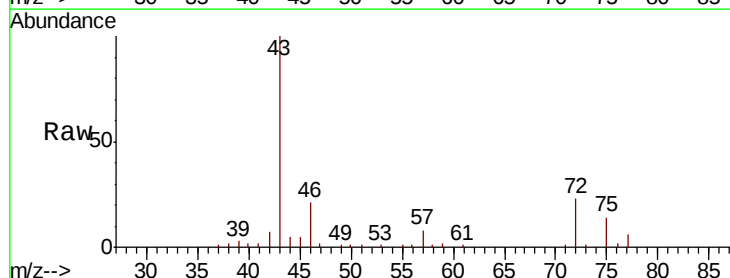
Acq: 29 May 2020 21:20

Tgt Ion: 43 Resp: 96009

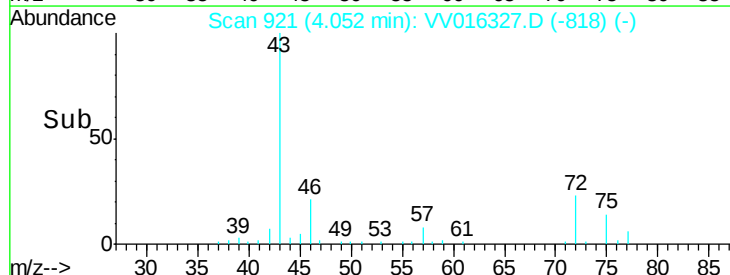
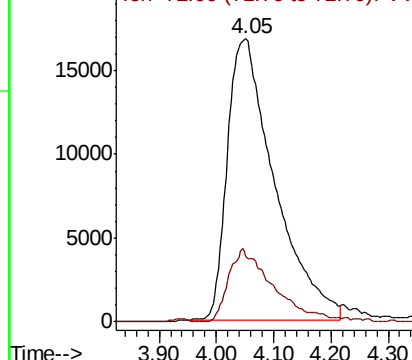
Ion Ratio Lower Upper

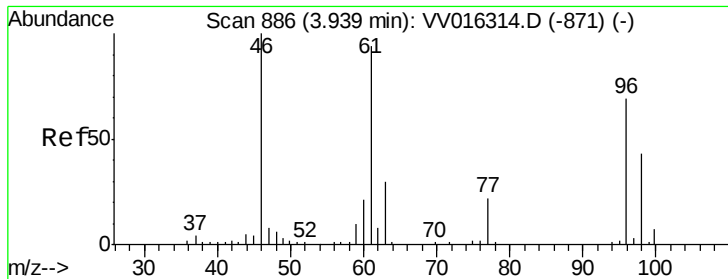
43 100

72 23.3 9.7 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 72.00 (71.70 to 72.70): VV0



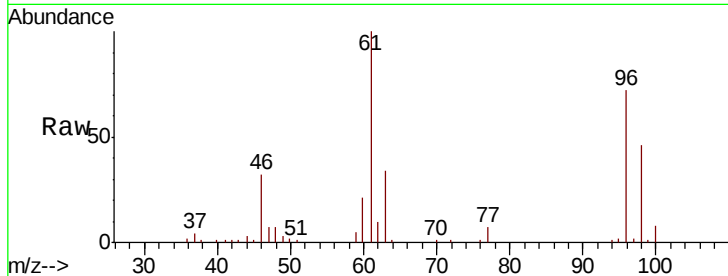


#22

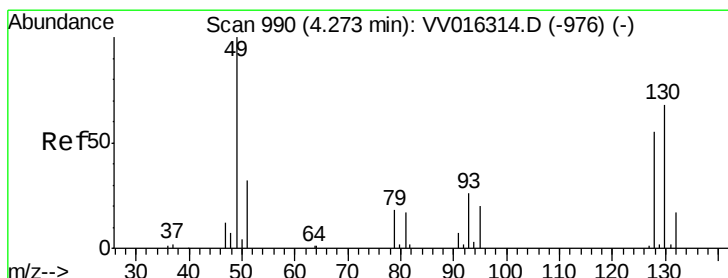
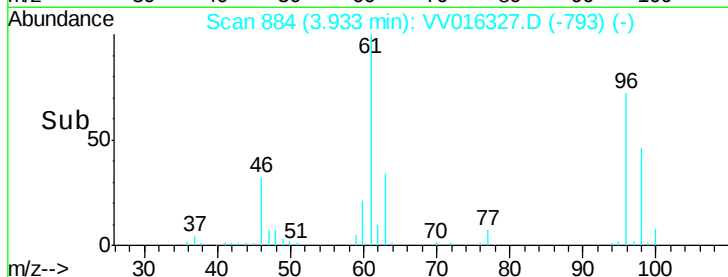
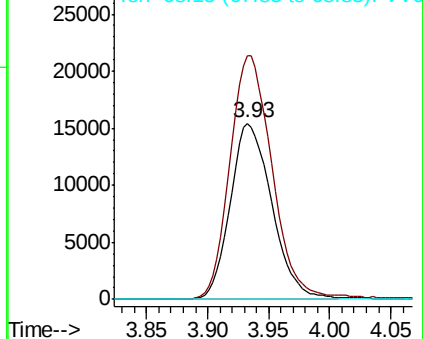
cis-1,2-Dichloroethene
 Concen: 4.826 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 36542
 Ion Ratio Lower Upper
 96 100
 61 138.1 99.7 185.1
 68 0.0 0.0 0.0



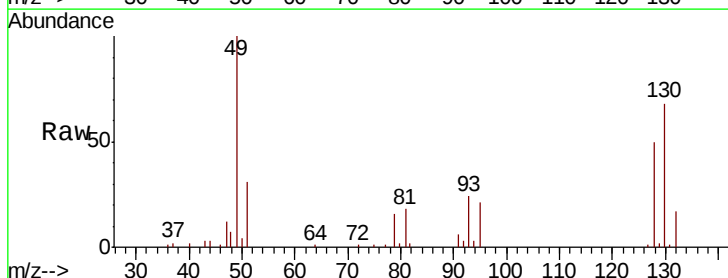
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



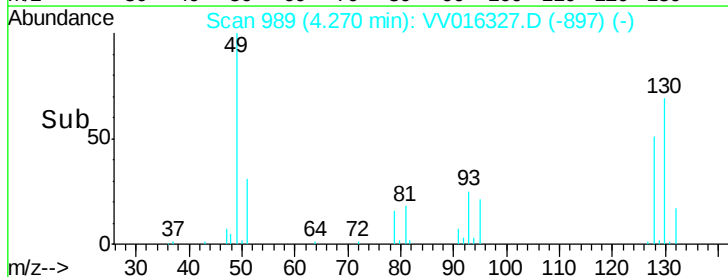
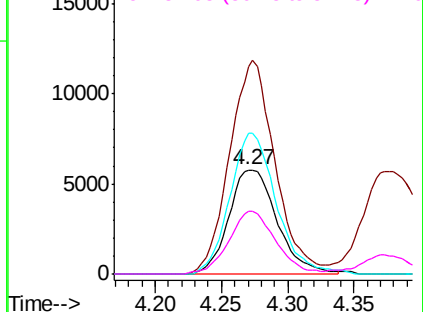
#23

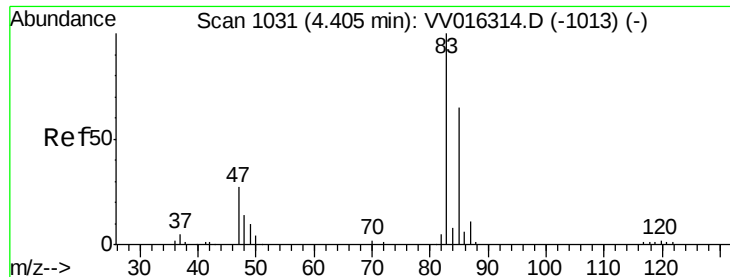
Bromochloromethane
 Concen: 5.079 ug/L
 RT: 4.27 min Scan# 989
 Delta R.T. -0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Tgt Ion: 128 Resp: 14600
 Ion Ratio Lower Upper
 128 100
 49 198.7 125.5 233.1
 130 135.1 83.0 154.2
 51 60.7 42.9 64.3



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

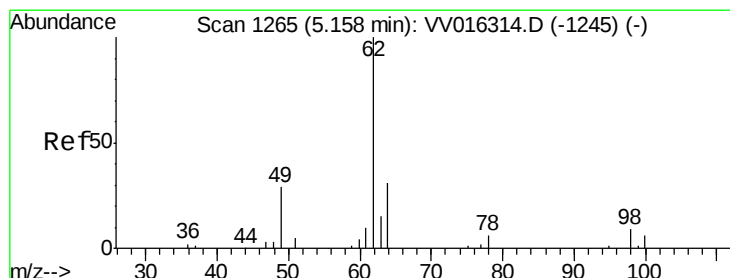
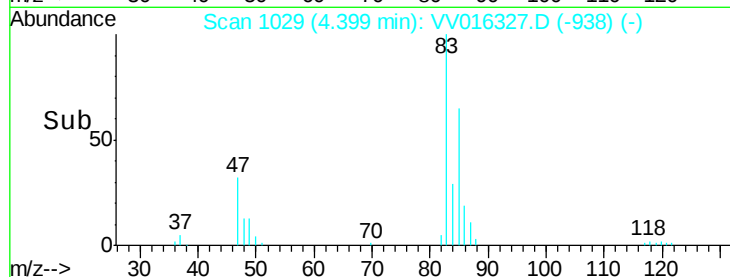
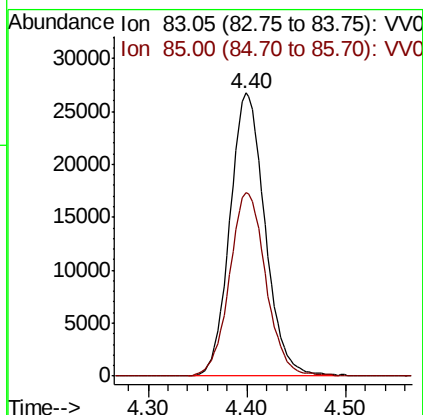
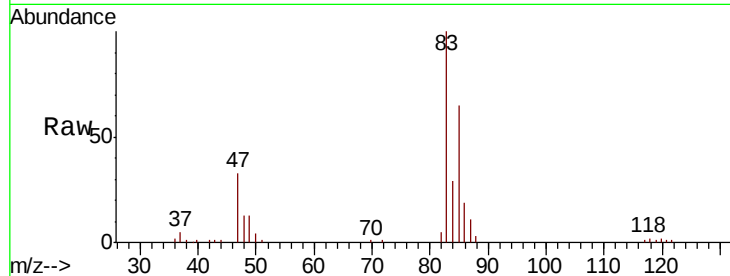




#25
Chloroform
Concen: 5.126 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

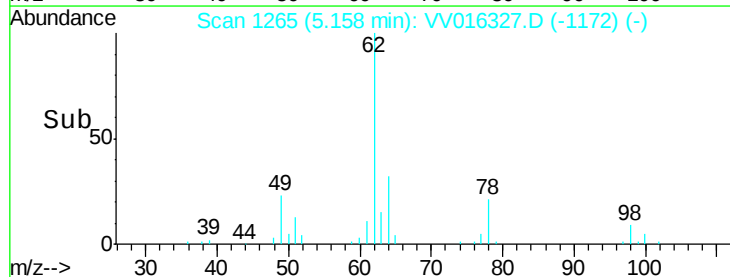
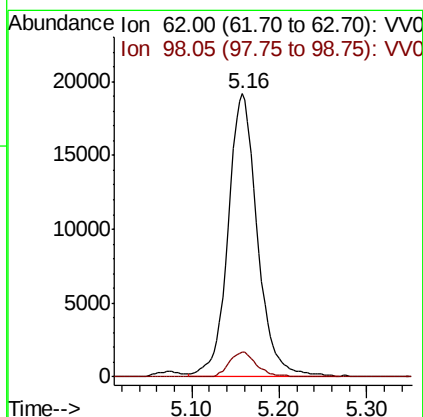
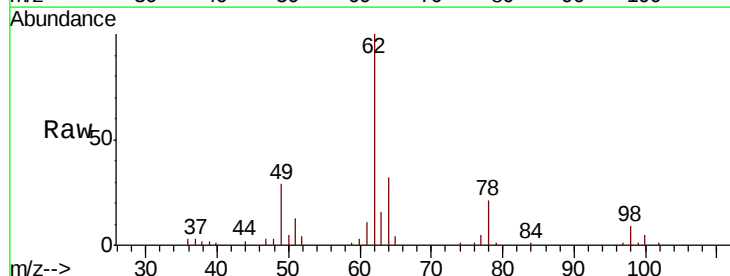
Instrument :
MSVOA_V
ClientSampleId :

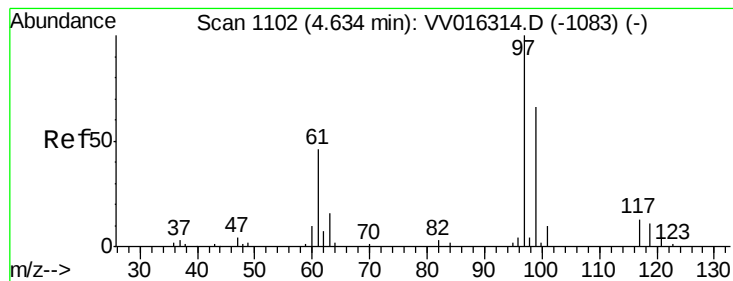
Tot Ion: 83 Resp: 65981
Ion Ratio Lower Upper
83 100
85 64.7 45.1 83.7



#27
1,2-Dichloroethane
Concen: 5.321 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion: 62 Resp: 44775
Ion Ratio Lower Upper
62 100
98 8.5 5.7 8.5#





#29

1,1,1-Trichloroethane

Concen: 5.120 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :
MSVOA_V
ClientSampleId :

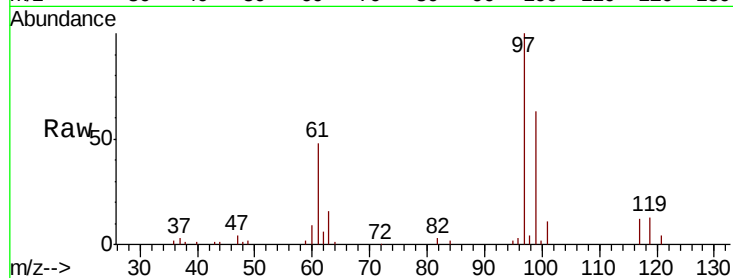
Tot Ion: 97 Resp: 56650

Ion Ratio Lower Upper

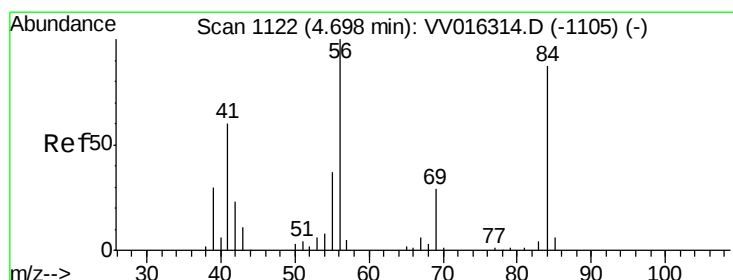
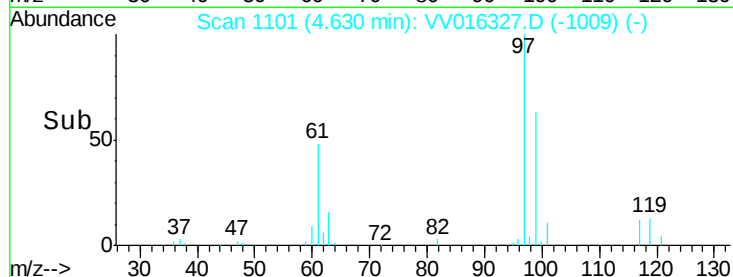
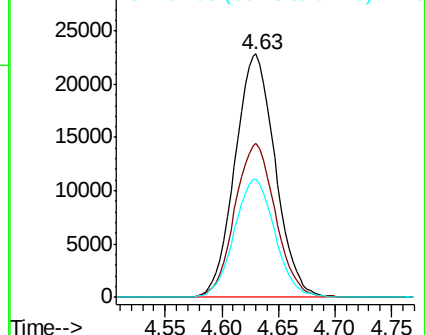
97 100

99 63.6 51.2 76.8

61 48.8 38.6 57.8



Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 5.117 ug/L

RT: 4.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

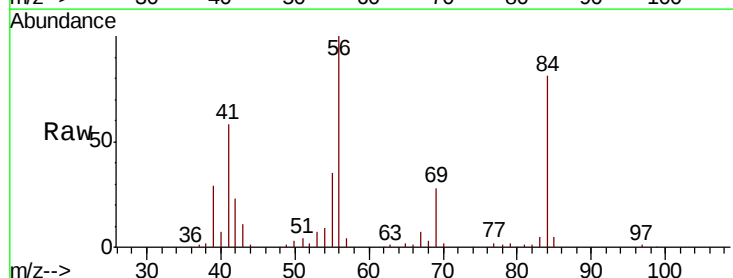
Tgt Ion: 56 Resp: 60671

Ion Ratio Lower Upper

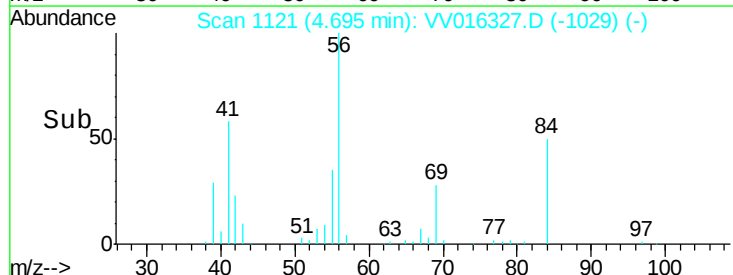
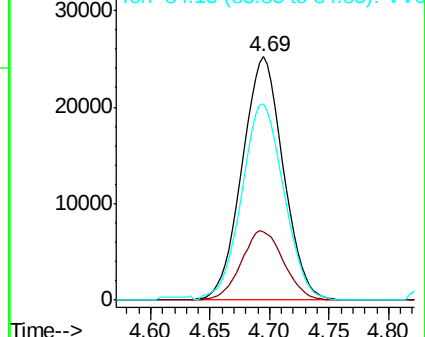
56 100

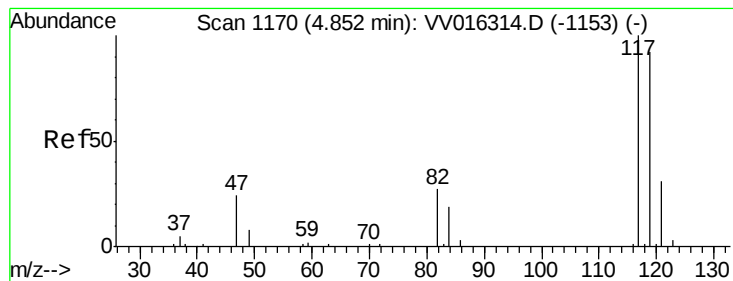
69 29.1 24.6 36.8

84 82.5 67.1 100.7



Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.931 ug/L

RT: 4.85 min Scan# 1169

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

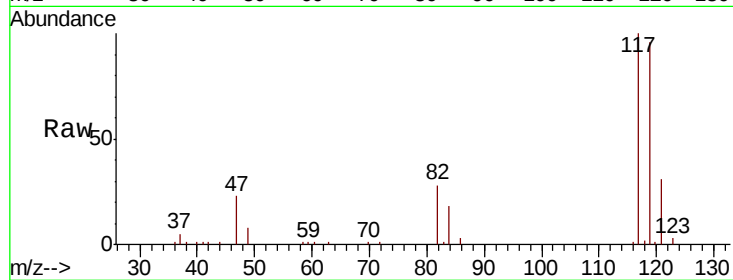
ClientSampleId :

Tot Ion:117 Resp: 46230

Ion Ratio Lower Upper

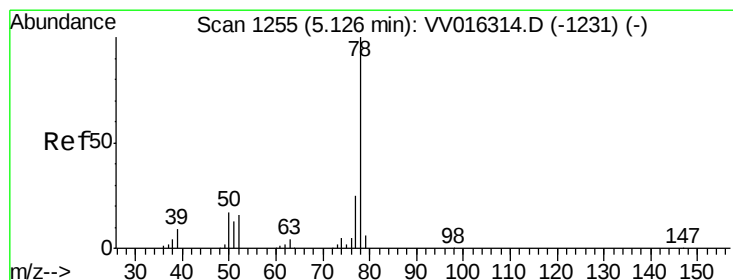
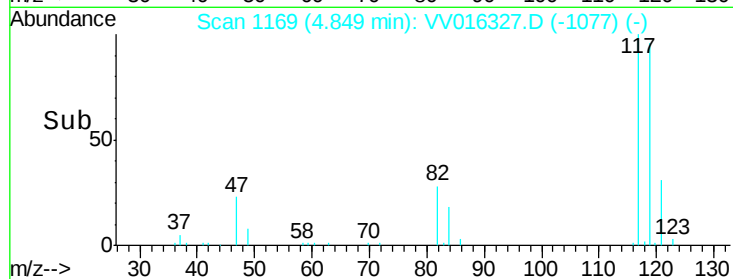
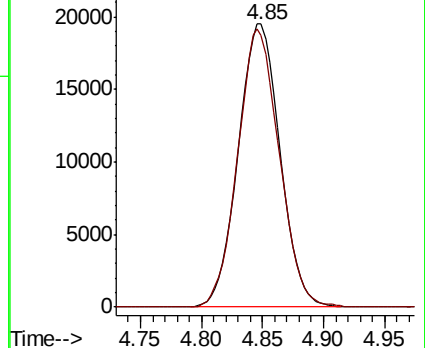
117 100

119 97.6 75.2 112.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.243 ug/L

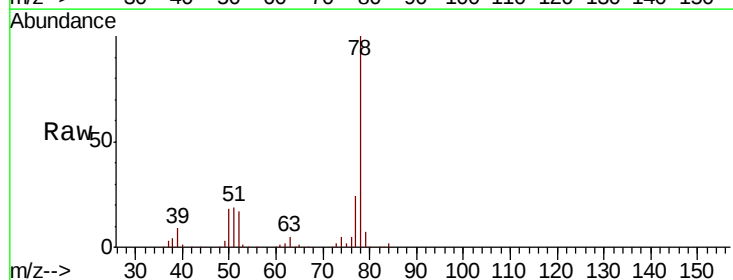
RT: 5.12 min Scan# 1253

Delta R.T. -0.01 min

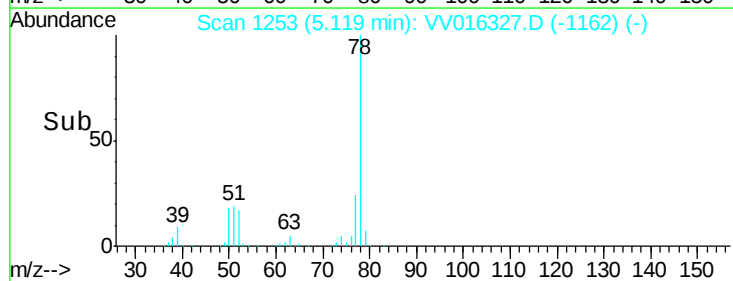
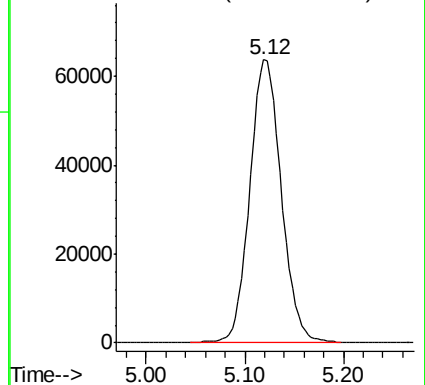
Lab File: VV016327.D

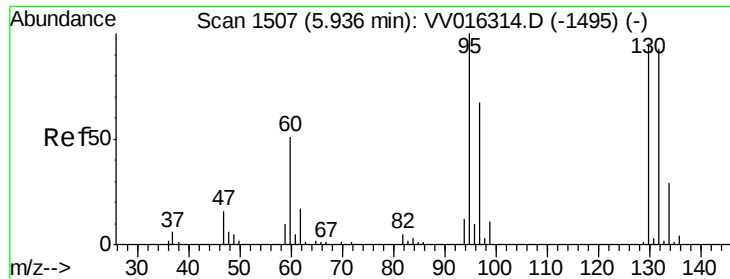
Acq: 29 May 2020 21:20

Tgt Ion: 78 Resp: 140648



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.281 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 95 Resp: 36909

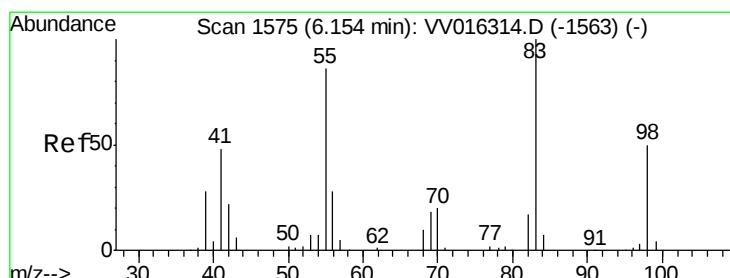
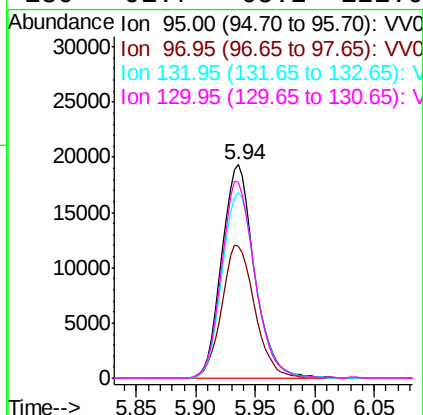
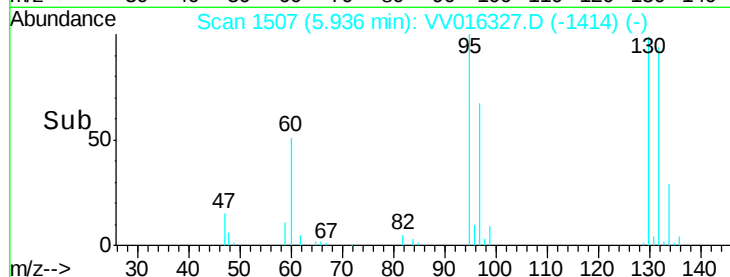
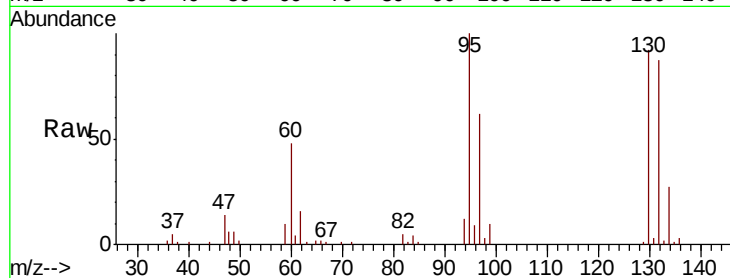
Ion Ratio Lower Upper

95 100

97 62.0 43.6 81.0

132 86.8 63.9 118.7

130 91.7 65.2 121.0



#35

Methylcyclohexane

Concen: 4.935 ug/L

RT: 6.15 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

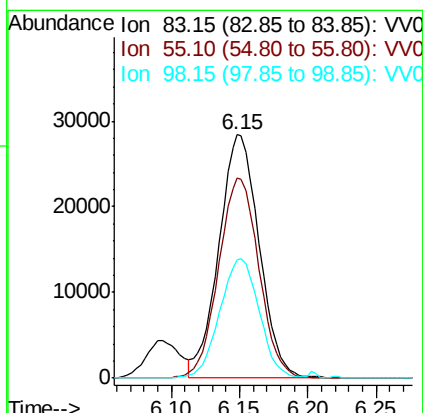
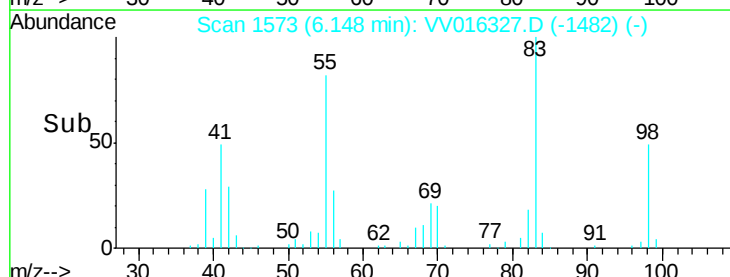
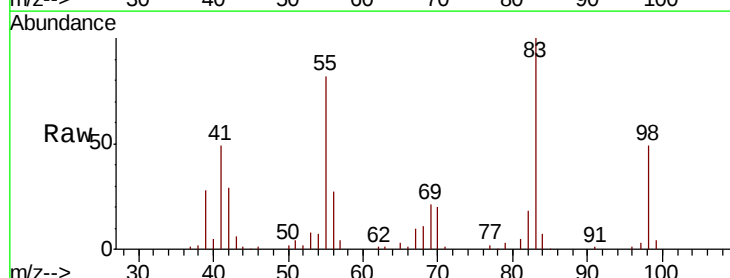
Tgt Ion: 83 Resp: 58163

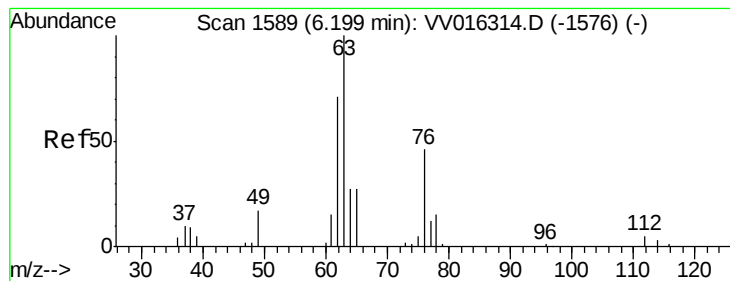
Ion Ratio Lower Upper

83 100

55 82.3 65.4 98.0

98 48.1 39.3 58.9





#37

1,2-Dichloropropane

Concen: 5.245 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

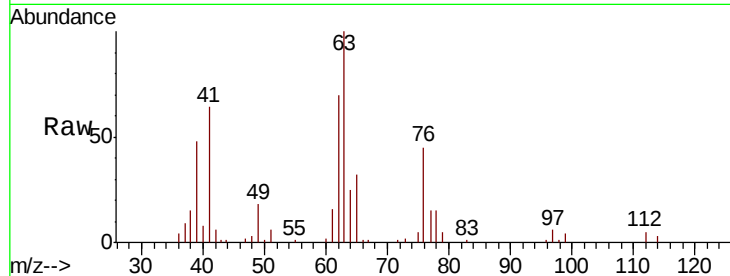
ClientSampleId :

Tot Ion: 63 Resp: 34511

Ion Ratio Lower Upper

63 100

112 4.3 3.1 4.7



Abundance Ion 63.10 (62.80 to 63.80): VV016327.D (-1496) (-)

Ion 112.10 (111.80 to 112.80): VV016327.D (-1496) (-)

6.20

20000

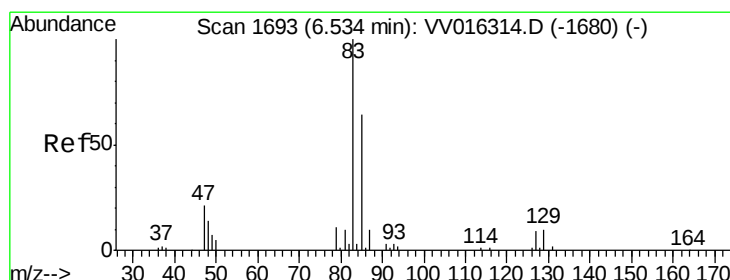
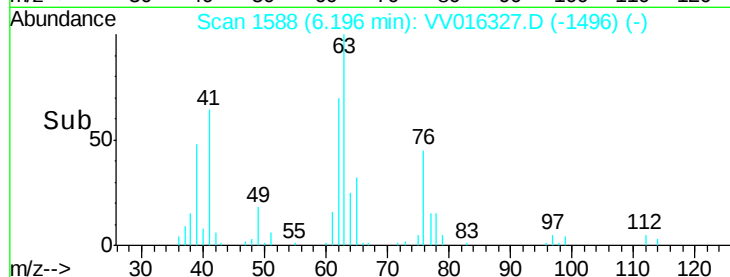
15000

10000

5000

0

Time--> 6.10 6.15 6.20 6.25 6.30



#38

Bromodichloromethane

Concen: 5.310 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

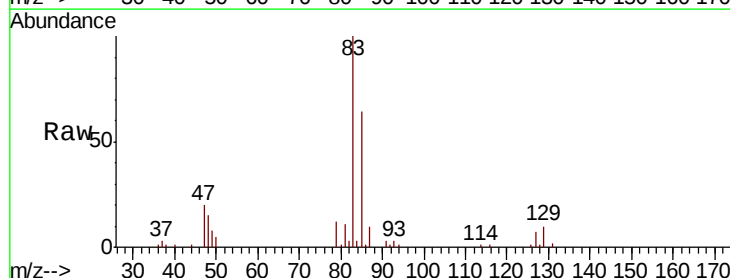
Tgt Ion: 83 Resp: 42993

Ion Ratio Lower Upper

83 100

85 64.4 44.2 82.2

127 7.4 7.1 10.7



Abundance Ion 82.95 (82.65 to 83.65): VV016327.D (-1600) (-)

Ion 85.00 (84.70 to 85.70): VV016327.D (-1600) (-)

Ion 126.90 (126.60 to 127.60): VV016327.D (-1600) (-)

6.53

30000

25000

20000

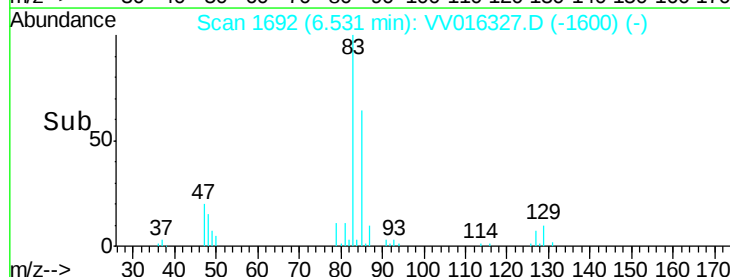
15000

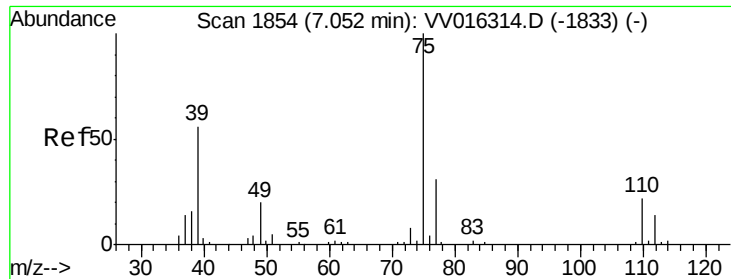
10000

5000

0

Time--> 6.45 6.50 6.55 6.60 6.65

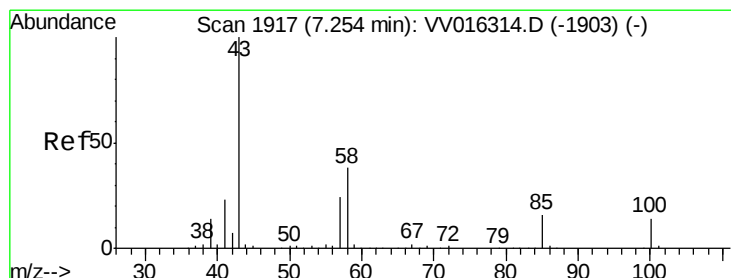
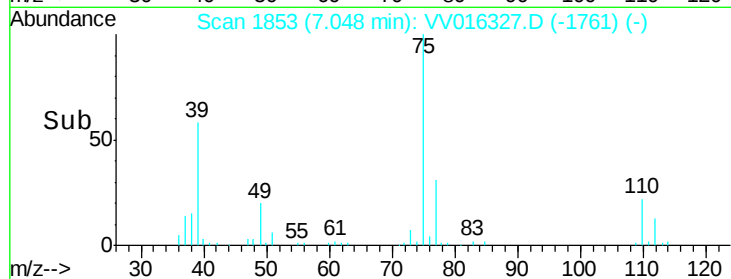
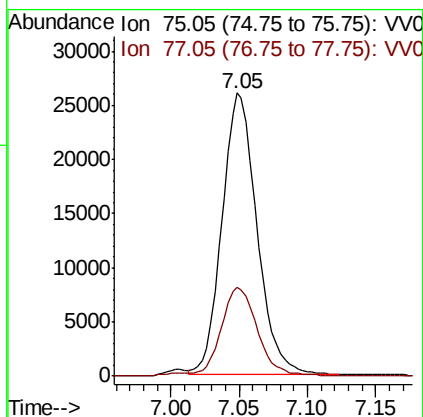
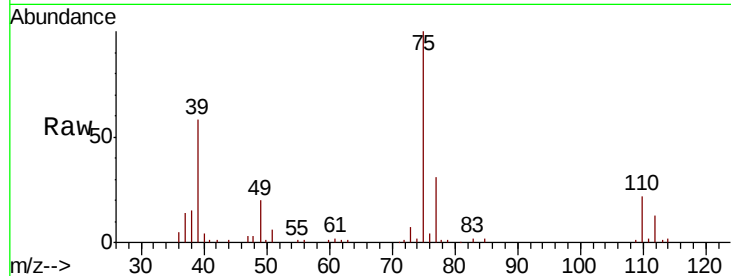




#39
 cis-1,3-Dichloropropene
 Concen: 4.964 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

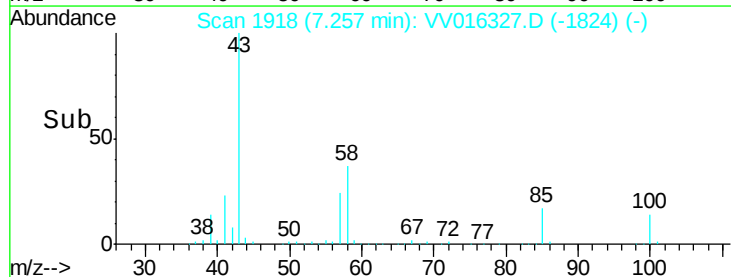
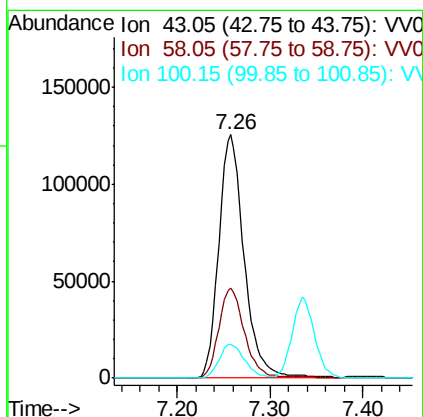
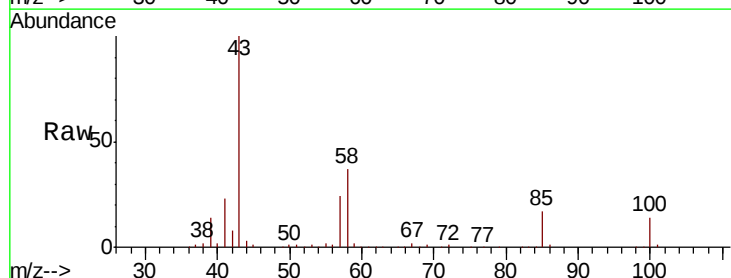
Instrument :
 MSVOA_V
 ClientSampleId :

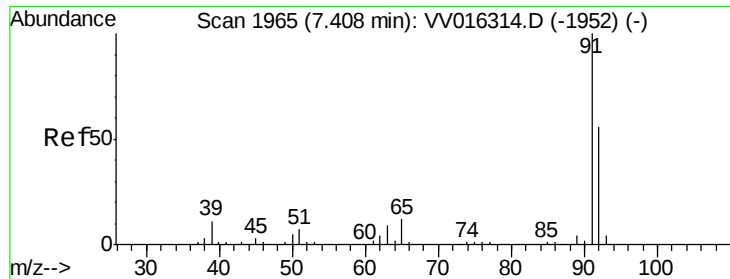
Tot Ion: 75 Resp: 46260
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 58.253 ug/L
 RT: 7.26 min Scan# 1918
 Delta R.T. 0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Tgt Ion: 43 Resp: 238463
 Ion Ratio Lower Upper
 43 100
 58 37.4 29.5 44.3
 100 14.0 11.1 16.7





#42

Toluene

Concen: 5.234 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

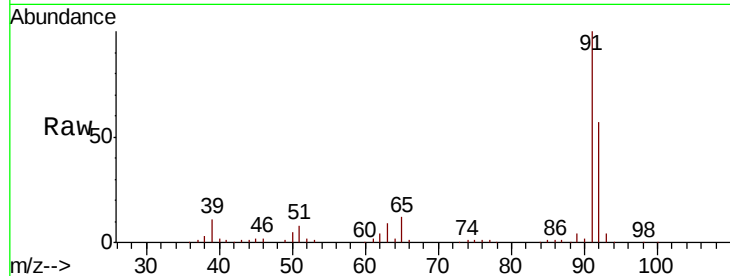
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 153121

Ion Ratio Lower Upper

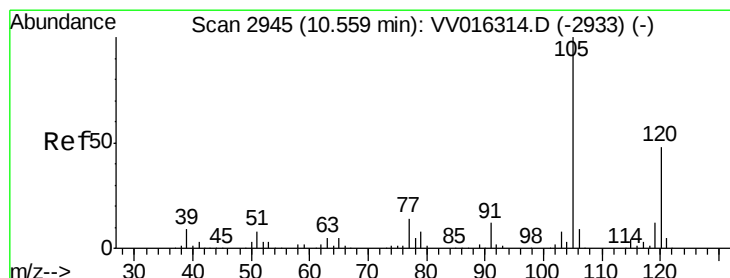
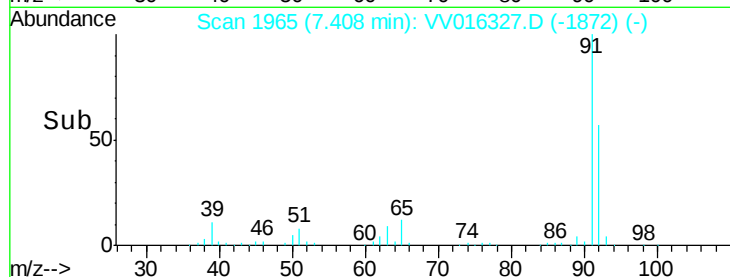
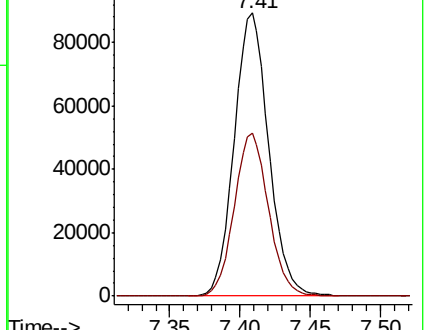
91 100

92 57.4 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV016314.D (-1952) (-)

Ion 92.15 (91.85 to 92.85): VV016314.D (-1952) (-)



#43

1,3,5-Trimethylbenzene

Concen: 5.287 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VV016327.D

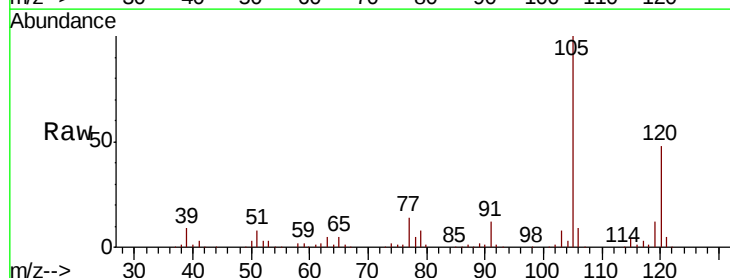
Acq: 29 May 2020 21:20

Tgt Ion:105 Resp: 140807

Ion Ratio Lower Upper

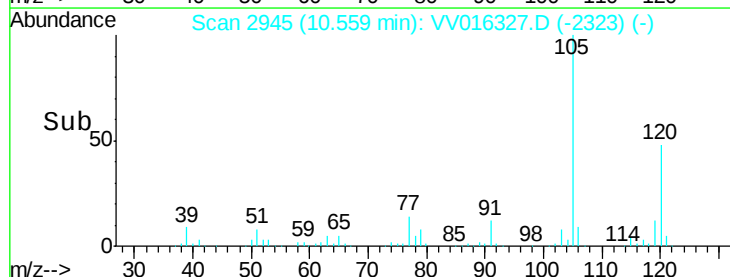
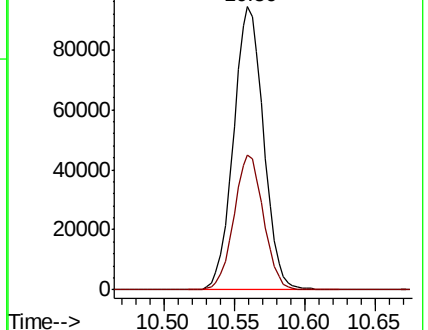
105 100

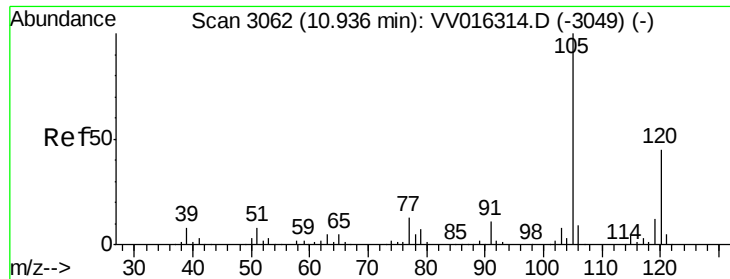
120 47.1 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): VV016314.D (-2933) (-)

Ion 120.00 (119.70 to 120.70): VV016314.D (-2933) (-)

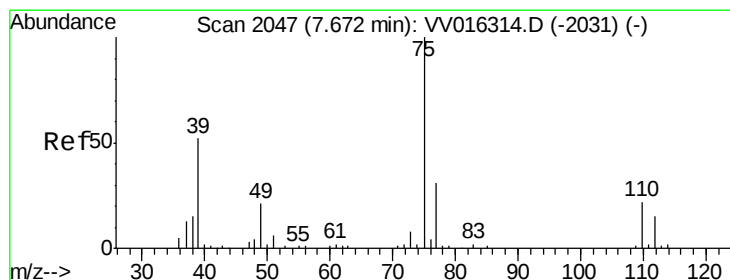
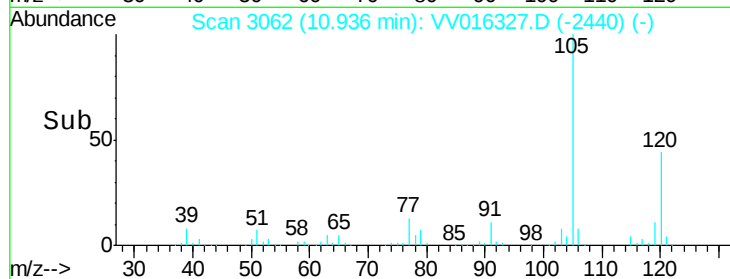
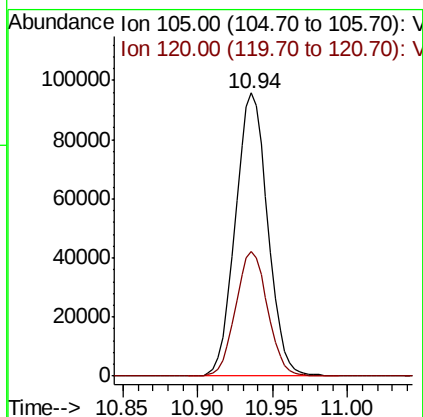
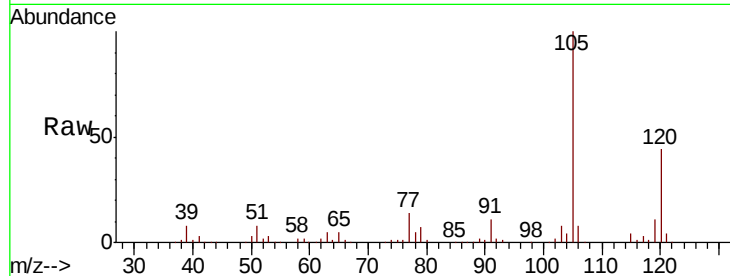




#44
1,2,4-Trimethylbenzene
Concen: 5.255 ug/L
RT: 10.94 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

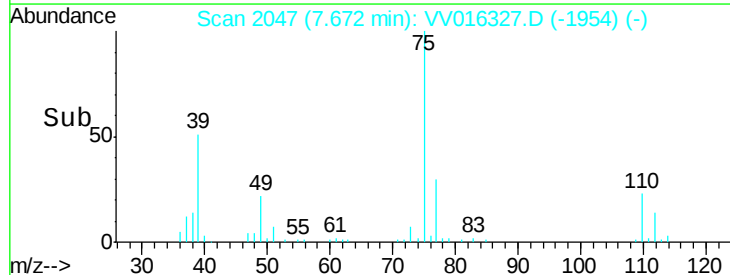
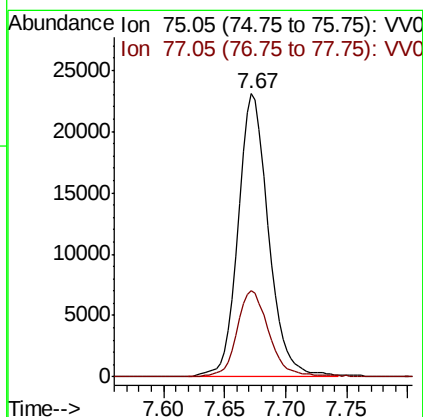
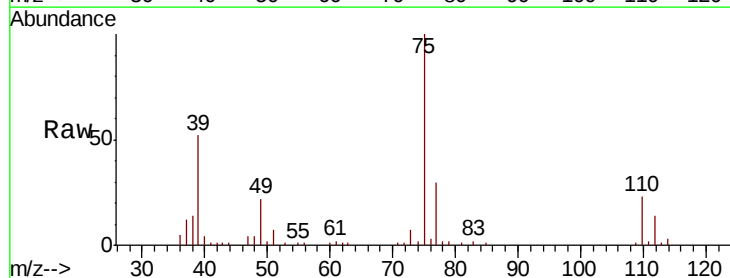
Instrument :
MSVOA_V
ClientSampleId :

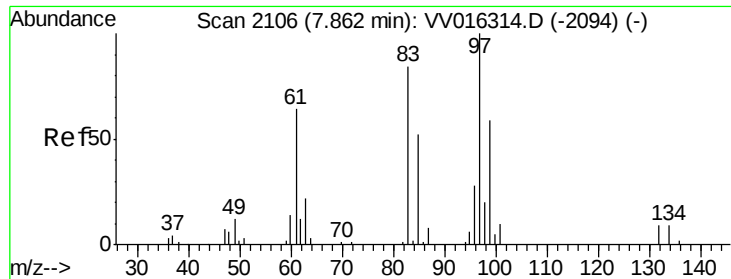
Tot Ion:105 Resp: 144152
Ion Ratio Lower Upper
105 100
120 43.6 34.6 52.0



#46
trans-1,3-Dichloropropene
Concen: 5.145 ug/L
RT: 7.67 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion: 75 Resp: 39834
Ion Ratio Lower Upper
75 100
77 30.4 21.7 40.3

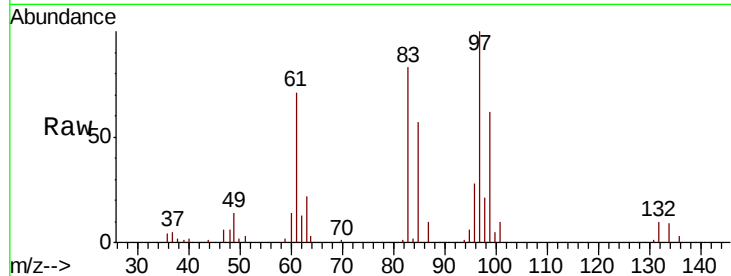




#47
 1,1,2-Trichloroethane
 Concen: 5.519 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	23883
Ion	Ratio	Lower	Upper
97	100		
99	61.7	40.8	75.8
83	83.4	60.0	111.4
85	56.6	39.3	73.1

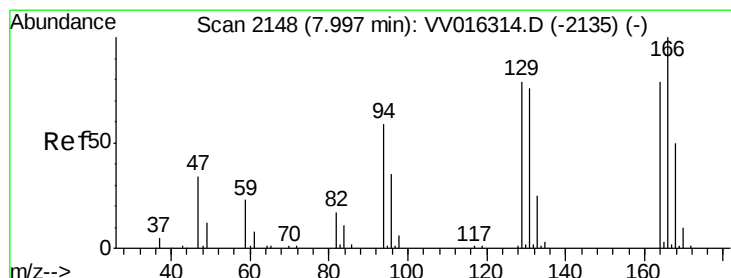
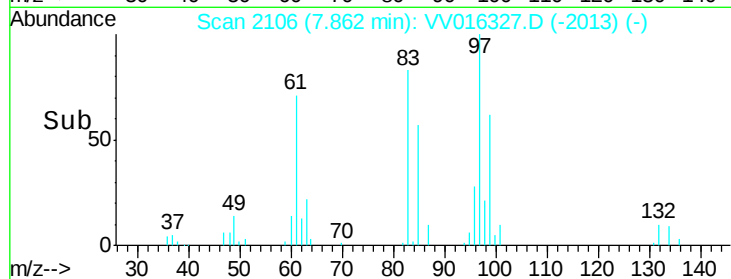
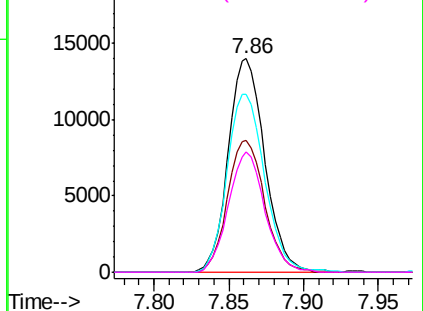


Abundance Ion 96.95 (96.65 to 97.65): VV016327.D (-2013) (-)

Ion 99.05 (98.75 to 99.75): VV016327.D (-2013) (-)

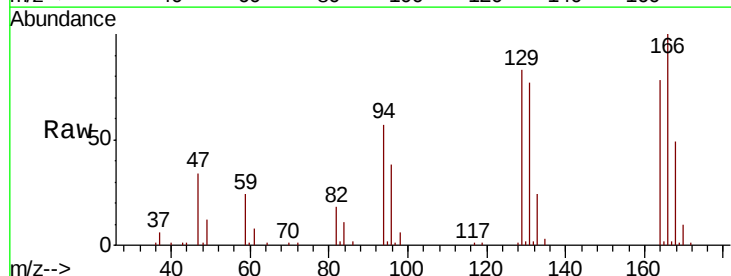
Ion 82.95 (82.65 to 83.65): VV016327.D (-2013) (-)

Ion 85.00 (84.70 to 85.70): VV016327.D (-2013) (-)



#49
 Tetrachloroethene
 Concen: 5.003 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. -0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Tgt Ion:	164	Resp:	25104
Ion	Ratio	Lower	Upper
164	100		
129	106.6	70.7	131.3
131	98.2	66.6	123.8
166	128.3	86.9	161.5

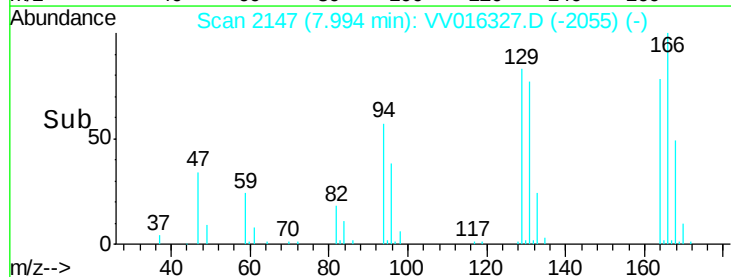
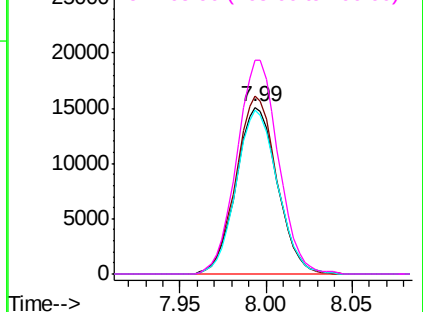


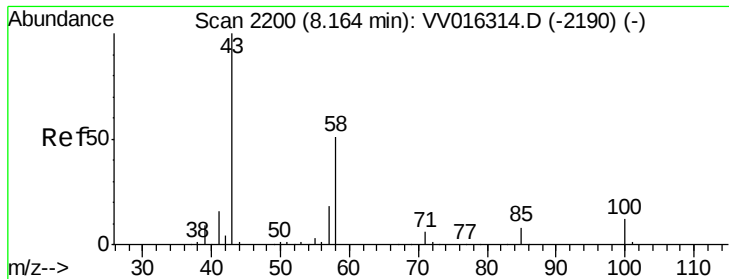
Abundance Ion 163.90 (163.60 to 164.60): VV016327.D (-2055) (-)

Ion 128.95 (128.65 to 129.65): VV016327.D (-2055) (-)

Ion 130.95 (130.65 to 131.65): VV016327.D (-2055) (-)

Ion 165.90 (165.60 to 166.60): VV016327.D (-2055) (-)

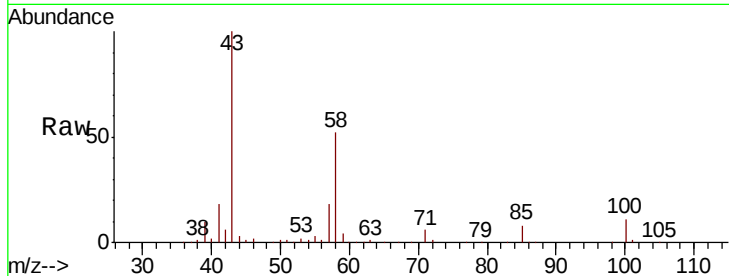




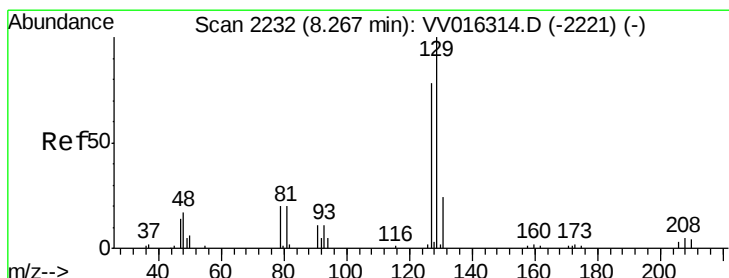
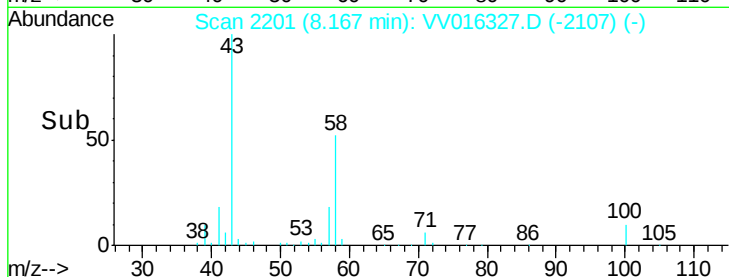
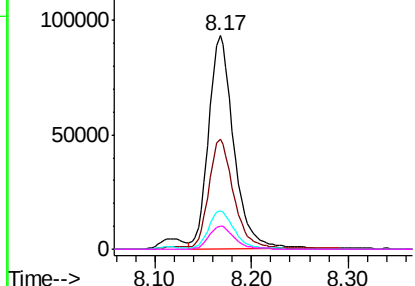
#50
2-Hexanone
Concen: 59.321 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 169349
Ion Ratio Lower Upper
43 100
58 51.1 41.4 62.0
57 18.8 15.0 22.4
100 11.3 9.0 13.4

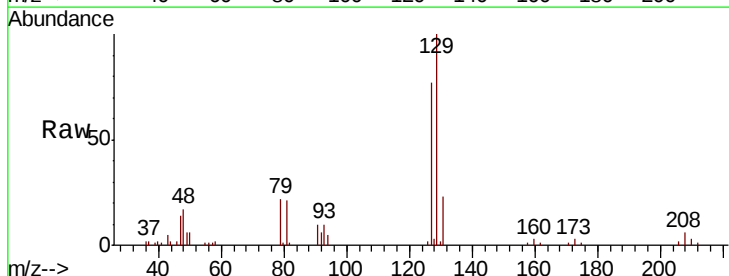


Abundance Ion 43.05 (42.75 to 43.75): VV016327.D (-2107) (-)
Ion 58.05 (57.75 to 58.75): VV016327.D (-2107) (-)
Ion 57.20 (56.90 to 57.90): VV016327.D (-2107) (-)
Ion 100.15 (99.85 to 100.85): VV016327.D (-2107) (-)

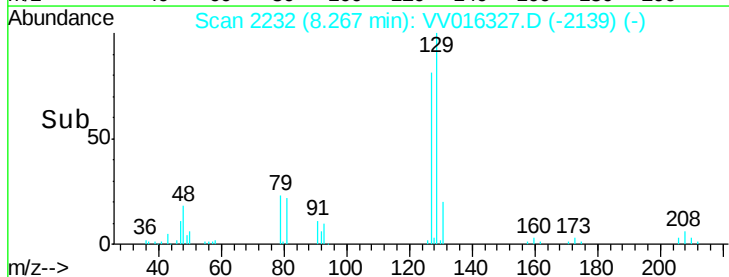
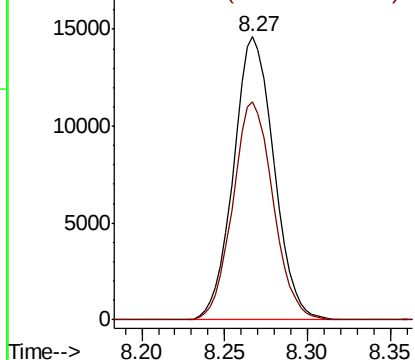


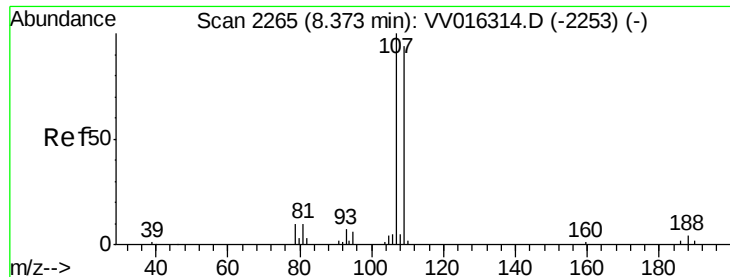
#51
Dibromochloromethane
Concen: 5.418 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion: 129 Resp: 24833
Ion Ratio Lower Upper
129 100
127 76.9 55.2 102.4



Abundance Ion 128.95 (128.65 to 129.65): VV016327.D (-2139) (-)
Ion 126.90 (126.60 to 127.60): VV016327.D (-2139) (-)

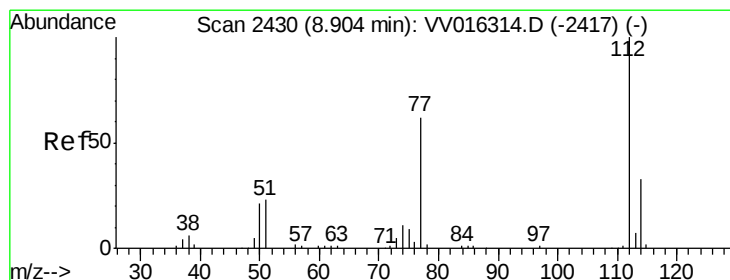
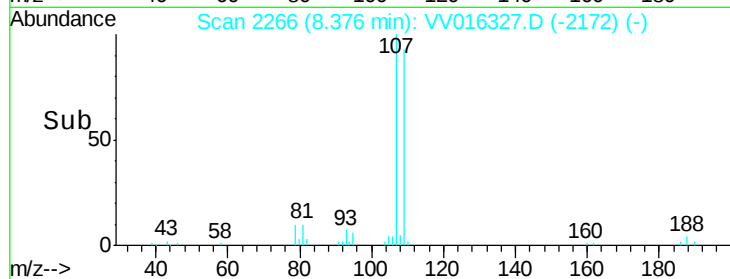
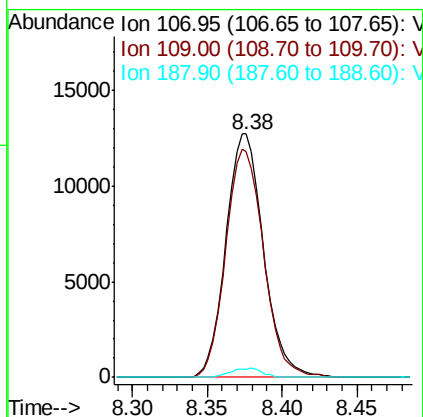
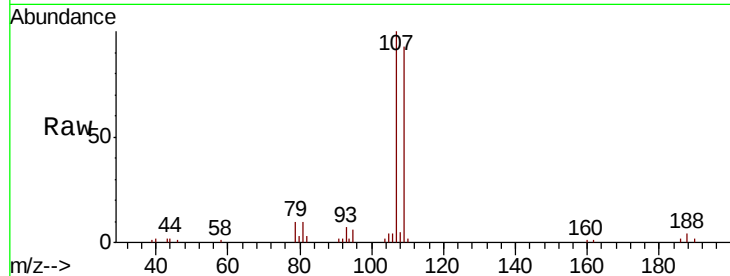




#52
1,2-Dibromoethane
Concen: 5.484 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

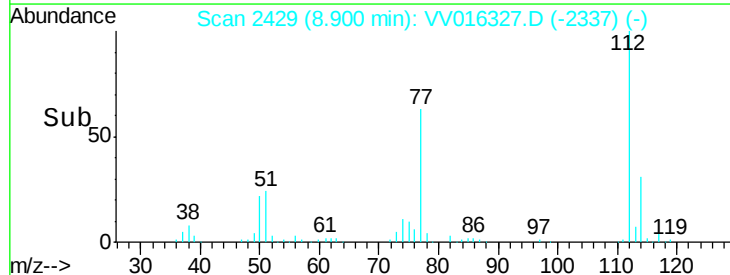
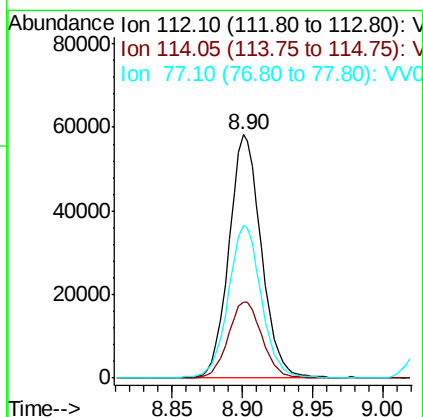
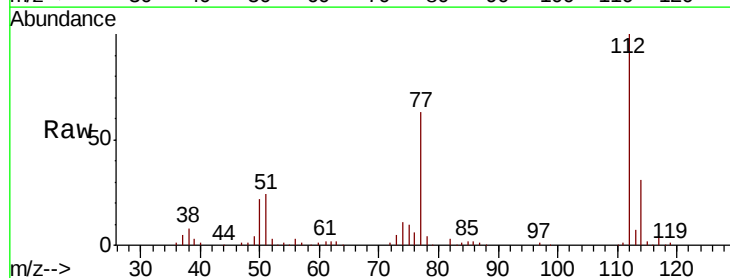
Instrument :
MSVOA_V
ClientSampleId :

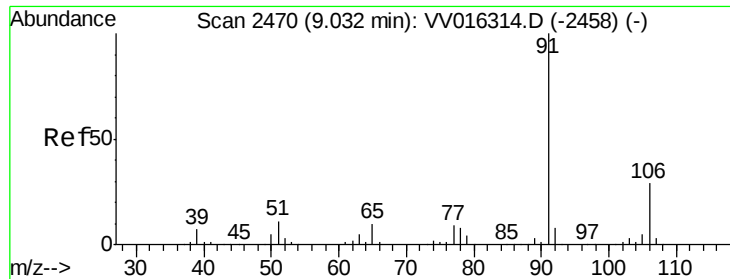
Tot Ion:107 Resp: 22297
Ion Ratio Lower Upper
107 100
109 92.5 63.1 117.3
188 3.6 2.6 4.0



#53
Chlorobenzene
Concen: 5.177 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion:112 Resp: 93589
Ion Ratio Lower Upper
112 100
114 31.4 22.3 41.3
77 62.9 50.7 76.1





#54

Ethylbenzene

Concen: 5.280 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

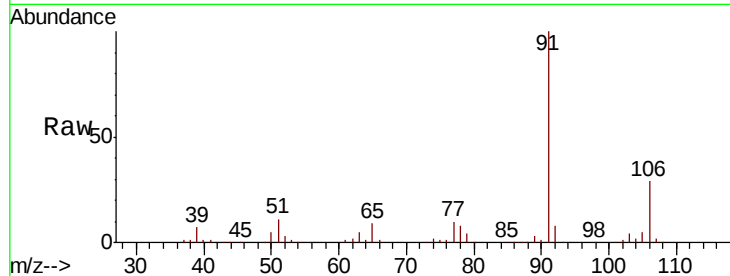
ClientSampleId :

Tot Ion: 91 Resp: 172194

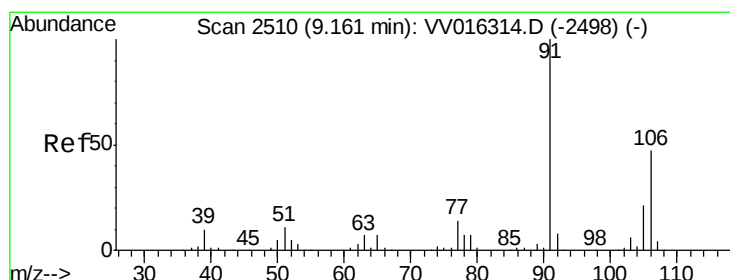
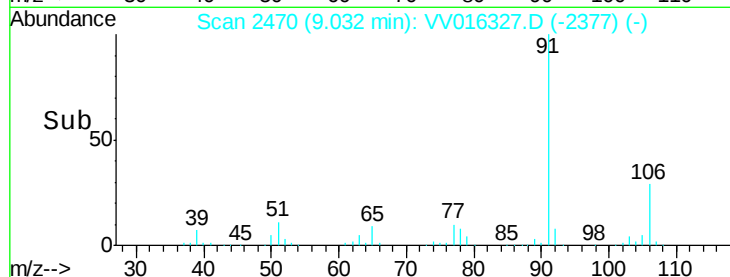
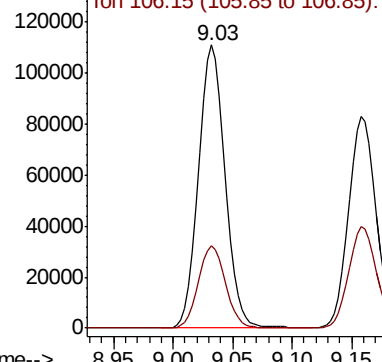
Ion Ratio Lower Upper

91 100

106 28.9 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VV016327.D (-2377) (-)



#55

m,p-xylene

Concen: 5.275 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016327.D

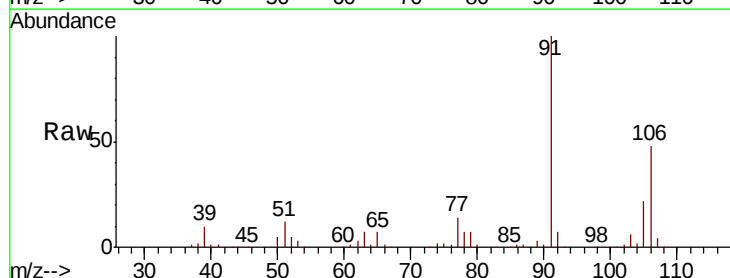
Acq: 29 May 2020 21:20

Tgt Ion: 106 Resp: 64507

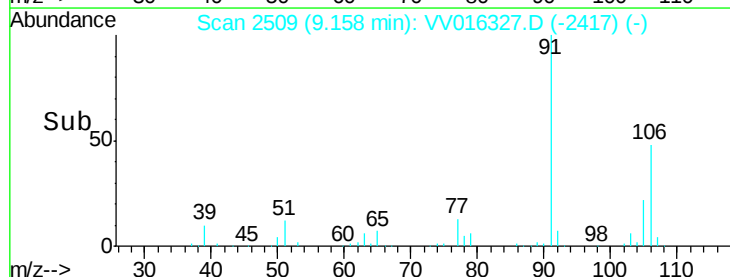
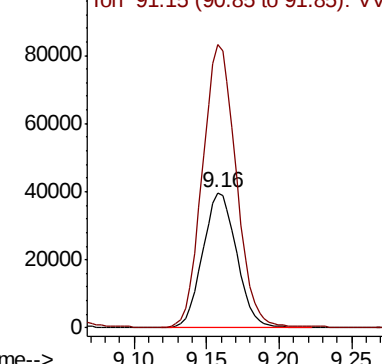
Ion Ratio Lower Upper

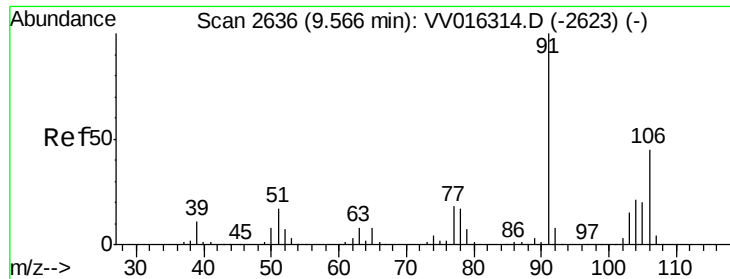
106 100

91 209.2 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): VV016327.D (-2417) (-)

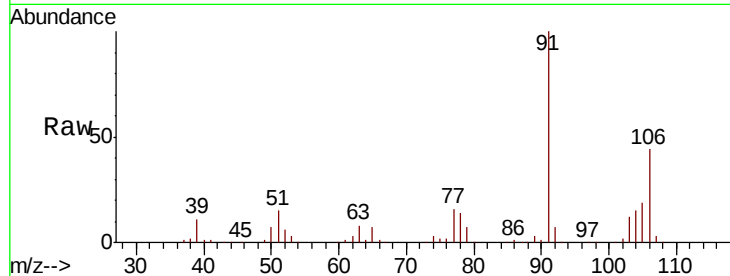




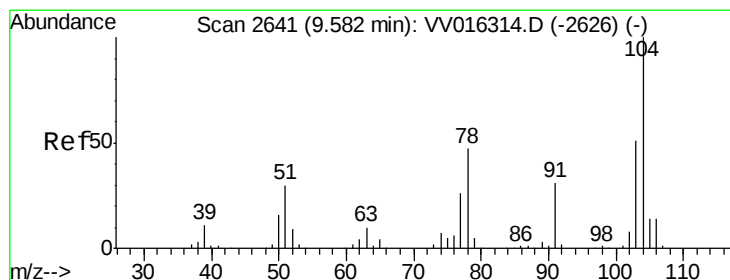
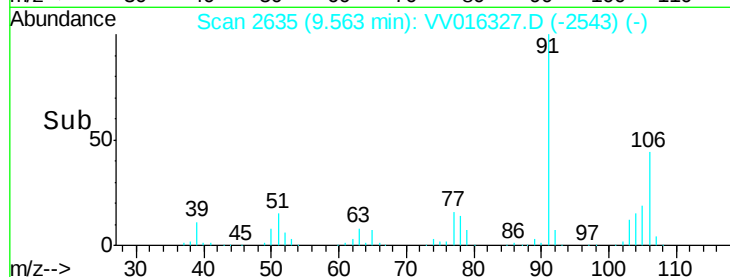
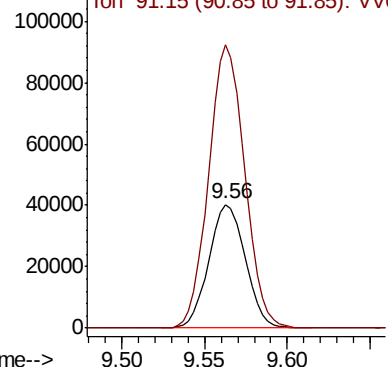
#56
o-xylene
Concen: 5.312 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 61899
Ion Ratio Lower Upper
106 100
91 228.6 158.8 294.8

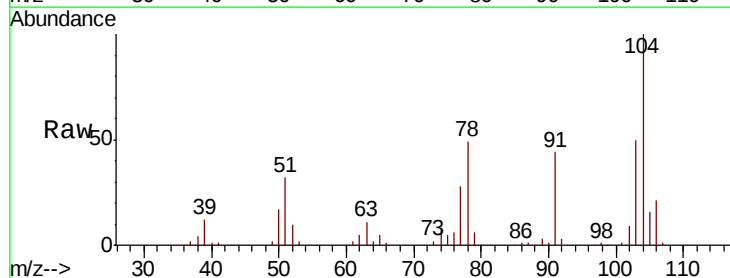


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

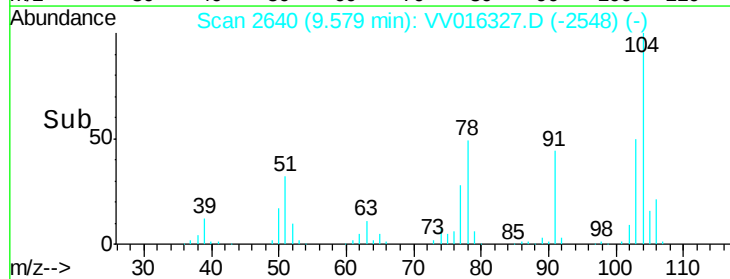
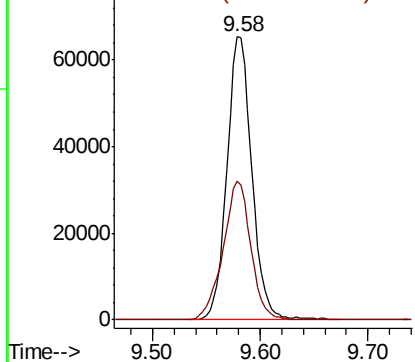


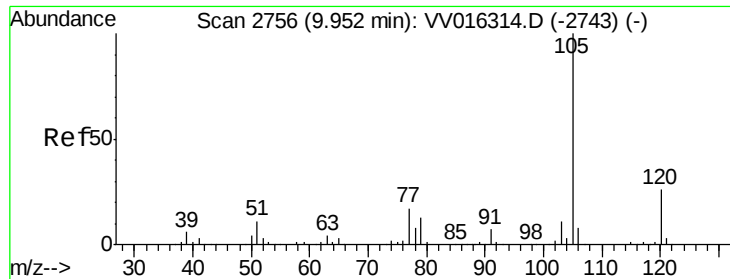
#57
Styrene
Concen: 5.413 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. -0.00 min
Lab File: VV016327.D
Acq: 29 May 2020 21:20

Tgt Ion:104 Resp: 104974
Ion Ratio Lower Upper
104 100
78 49.1 33.2 61.7



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 5.188 ug/L

RT: 9.95 min Scan# 2756

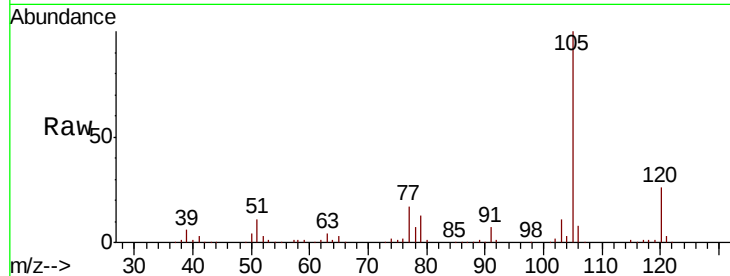
Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :
MSVOA_V
ClientSampled :

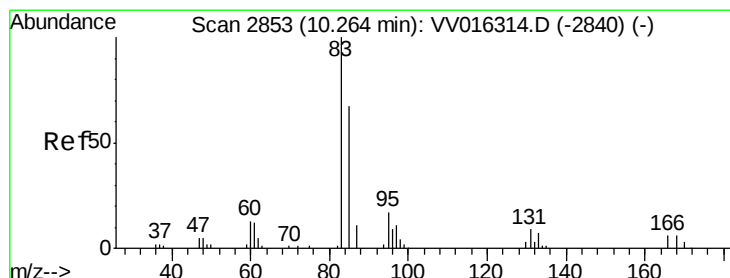
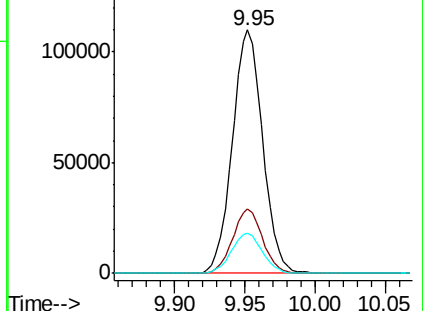
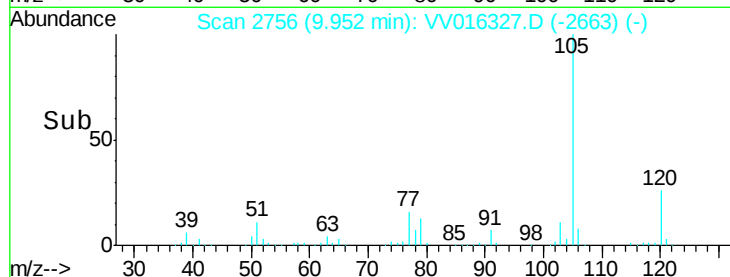
Tot Ion:	105	Resp:	165609
Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.9	31.3
77	16.8	13.9	20.9



Abundance Ion 105.05 (104.75 to 105.75): VV016314.D (-2743) (-)

Ion 120.10 (119.80 to 120.80): VV016314.D (-2743) (-)

Ion 77.10 (76.80 to 77.80): VV016314.D (-2743) (-)



#60

1,1,2,2-Tetrachloroethane

Concen: 5.638 ug/L

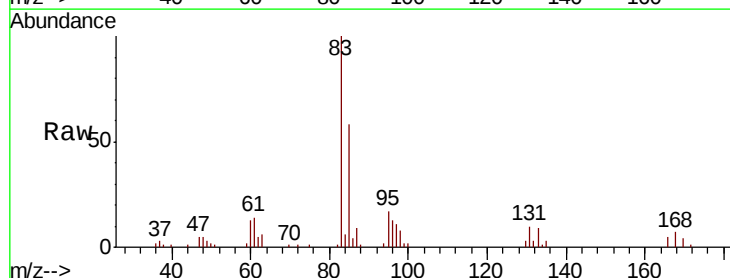
RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

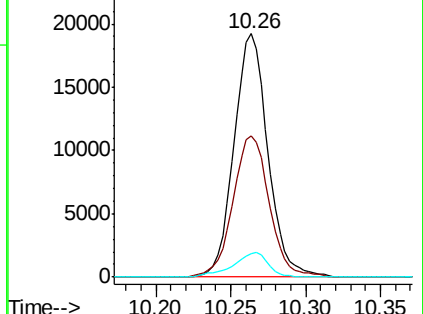
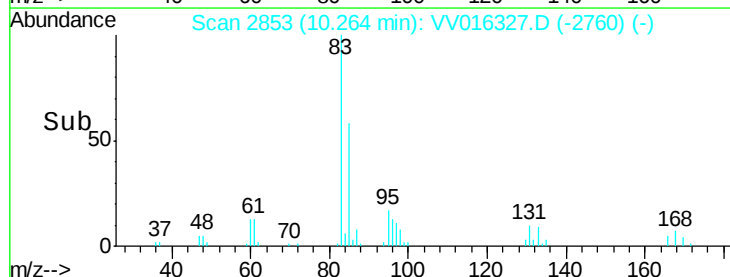
Tgt Ion:	83	Resp:	30334
Ion	Ratio	Lower	Upper
83	100		
85	58.1	45.6	84.8
131	9.5	7.9	11.9

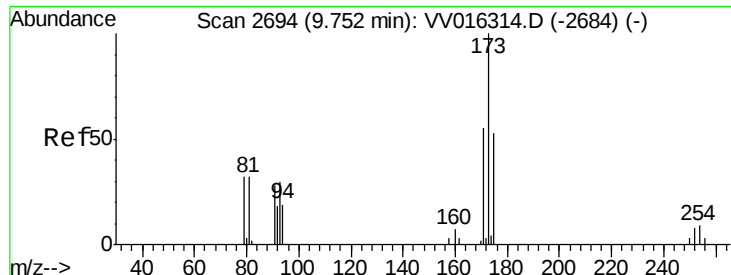


Abundance Ion 82.95 (82.65 to 83.65): VV016314.D (-2840) (-)

Ion 85.00 (84.70 to 85.70): VV016314.D (-2840) (-)

Ion 130.95 (130.65 to 131.65): VV016314.D (-2840) (-)





#62

Bromoform

Concen: 5.719 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :
MSVOA_V
ClientSampleId :

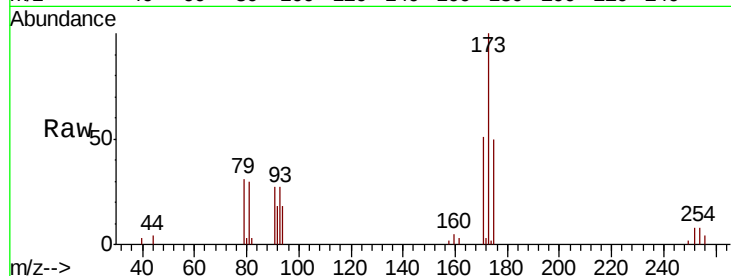
Tot Ion:173 Resp: 10913

Ion Ratio Lower Upper

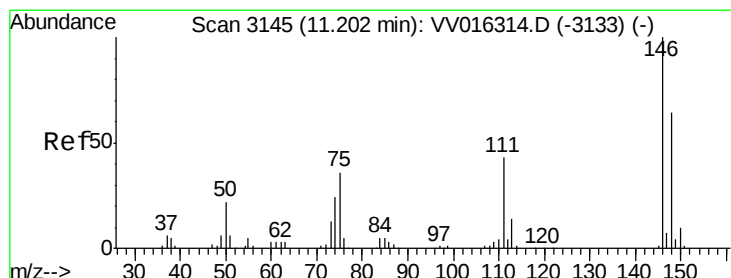
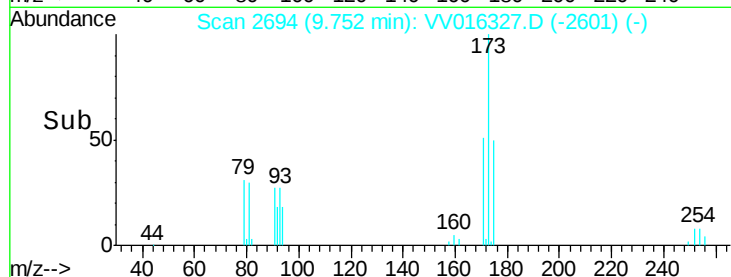
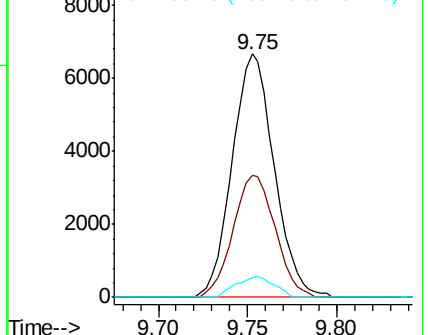
173 100

175 50.2 38.6 58.0

254 7.8 6.6 9.8



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 5.203 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

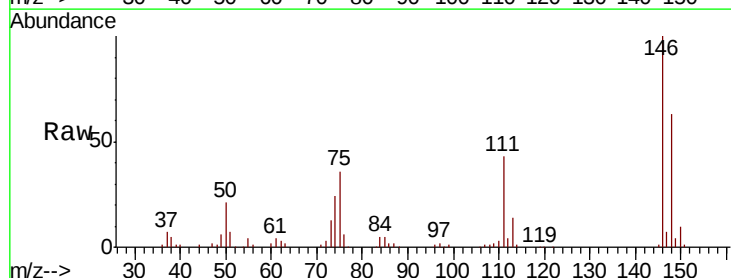
Tgt Ion:146 Resp: 70461

Ion Ratio Lower Upper

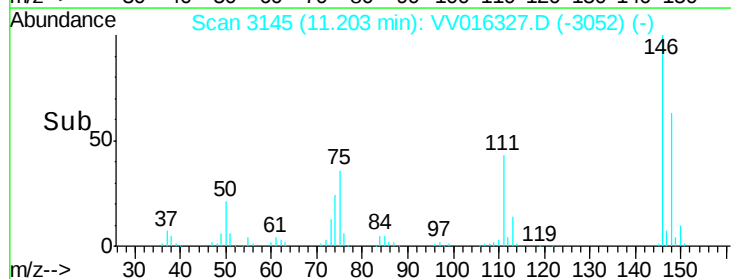
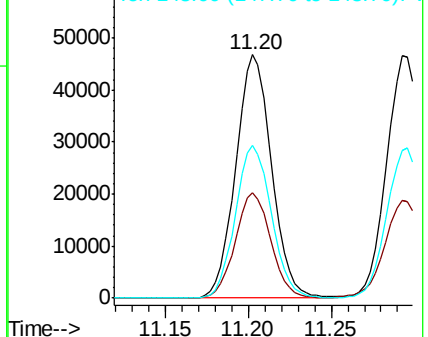
146 100

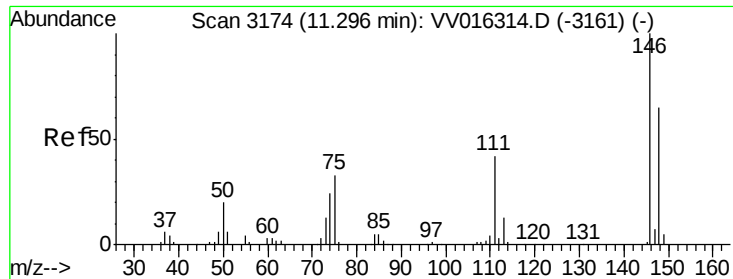
111 43.0 29.7 55.1

148 62.5 45.9 85.3



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 5.174 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VV016327.D

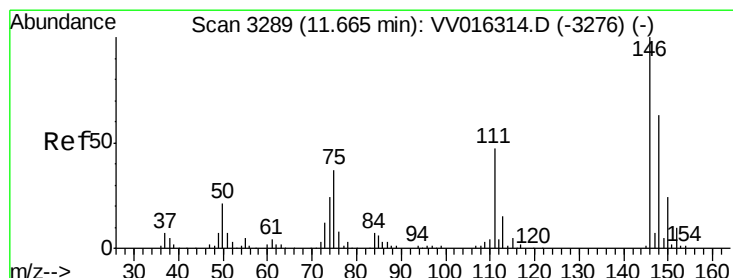
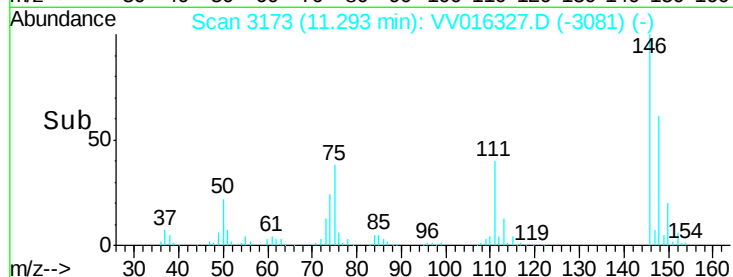
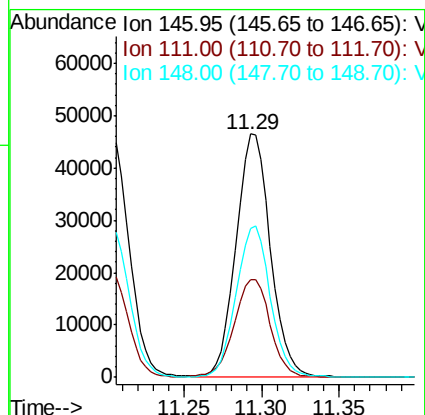
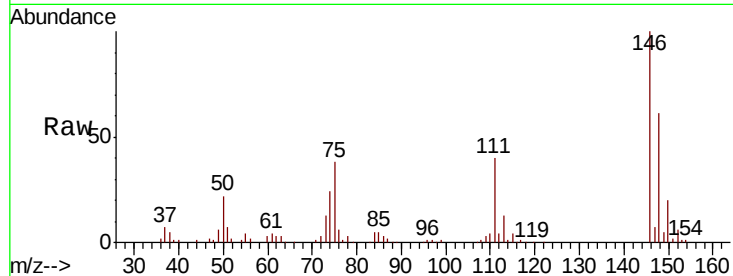
Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

ClientSampled :

Tot Ion:146	Resp:	71200
Ion	Ratio	Lower Upper
146	100	
111	40.4	28.3 52.7
148	61.2	43.3 80.3



#66

1,2-Dichlorobenzene

Concen: 5.374 ug/L

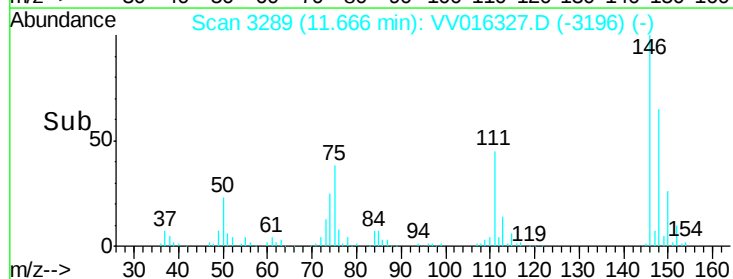
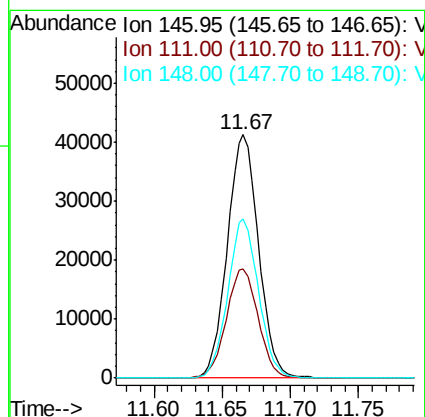
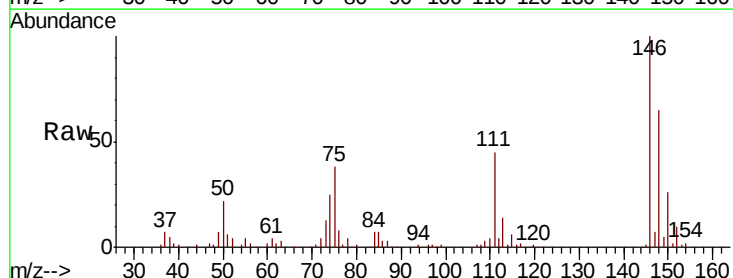
RT: 11.67 min Scan# 3289

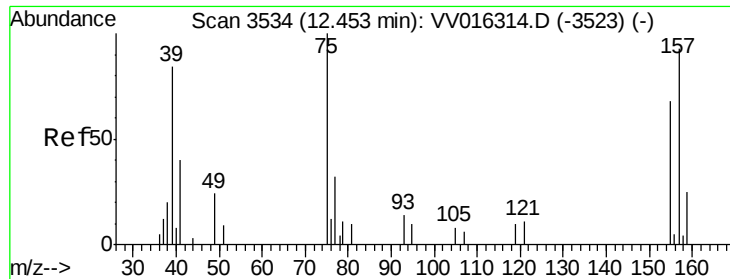
Delta R.T. 0.00 min

Lab File: VV016327.D

Acq: 29 May 2020 21:20

Tgt Ion:146	Resp:	65778
Ion	Ratio	Lower Upper
146	100	
111	45.1	35.7 53.5
148	65.2	51.3 76.9

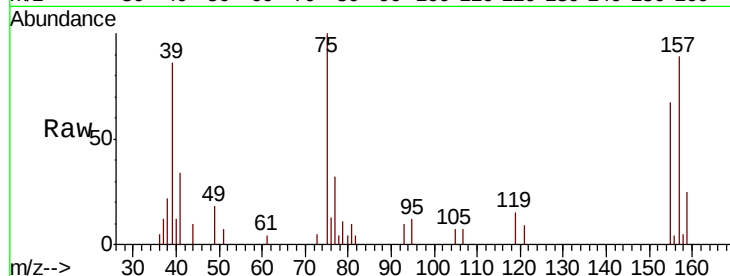




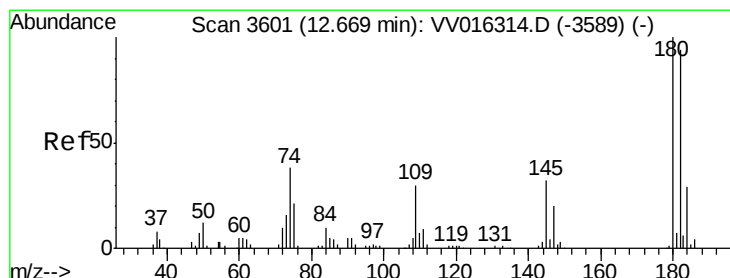
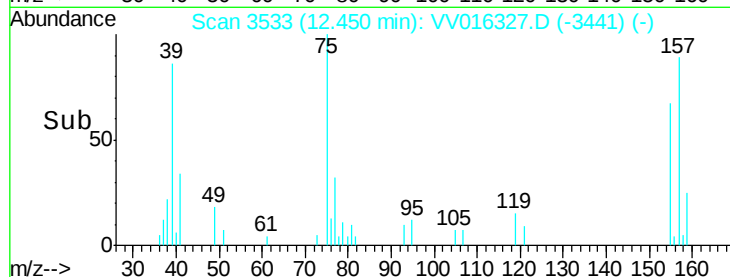
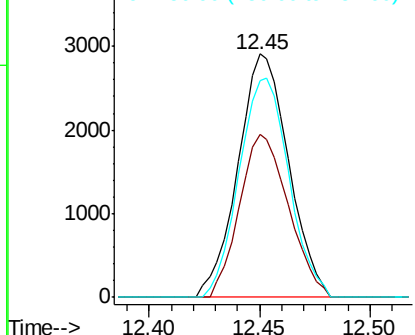
#67
 1,2-Dibromo-3-chloropropane
 Concen: 5.626 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 4652
 Ion Ratio Lower Upper
 75 100
 155 67.0 56.2 84.4
 157 89.2 71.9 107.9

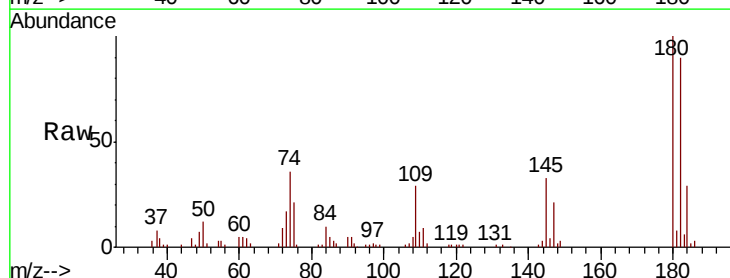


Abundance Ion 75.05 (74.75 to 75.75): VV016327.D (-3441) (-)
 Ion 154.95 (154.65 to 155.65): VV016327.D (-3441) (-)
 Ion 156.90 (156.60 to 157.60): VV016327.D (-3441) (-)

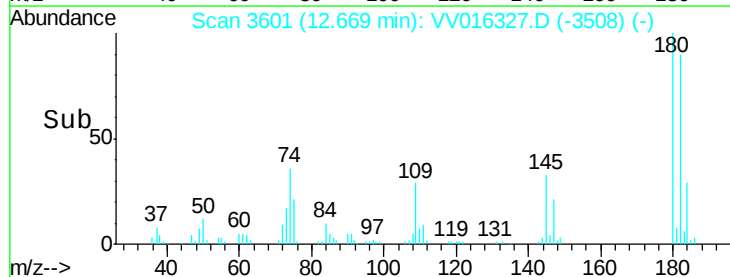
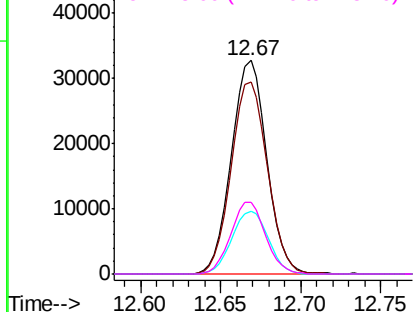


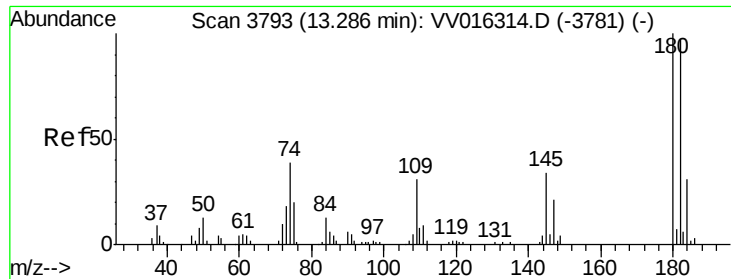
#68
 1,3,5-Trichlorobenzene
 Concen: 5.125 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Tgt Ion: 180 Resp: 49110
 Ion Ratio Lower Upper
 180 100
 182 92.3 77.1 115.7
 184 30.2 25.0 37.4
 145 33.0 26.3 39.5



Abundance Ion 180.00 (179.70 to 180.70): VV016327.D (-3508) (-)
 Ion 182.00 (181.70 to 182.70): VV016327.D (-3508) (-)
 Ion 184.00 (183.70 to 184.70): VV016327.D (-3508) (-)
 Ion 145.00 (144.70 to 145.70): VV016327.D (-3508) (-)

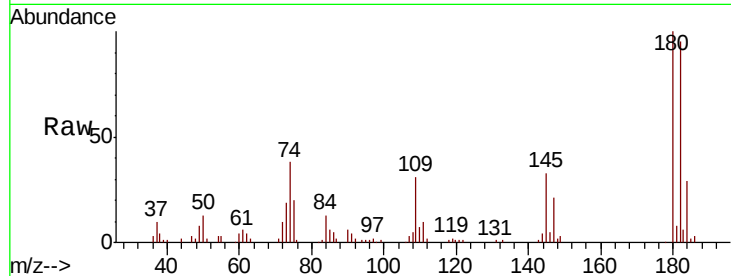




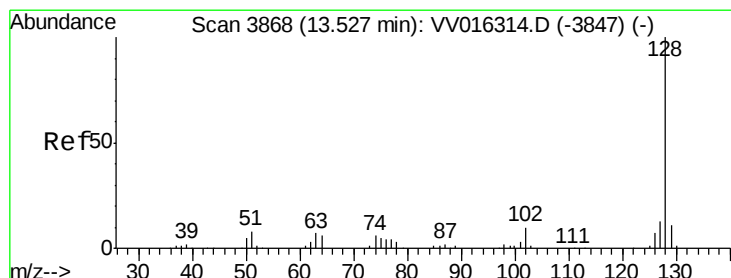
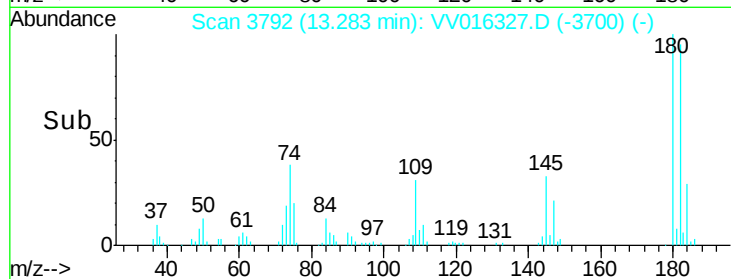
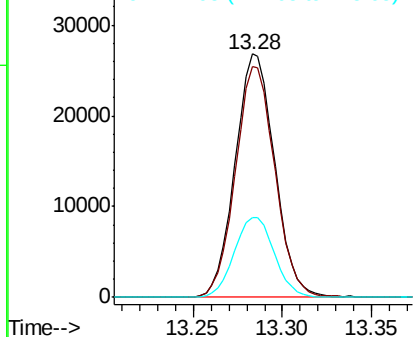
#69
 1,2,4-trichlorobenzene
 Concen: 4.906 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.0	112.4
145	33.1	27.1	40.7

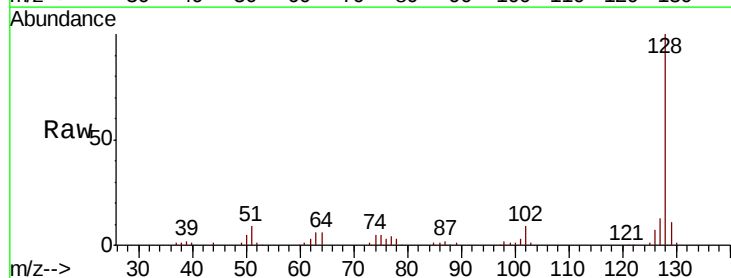


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

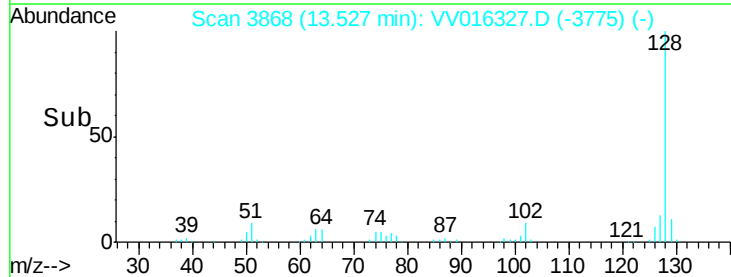
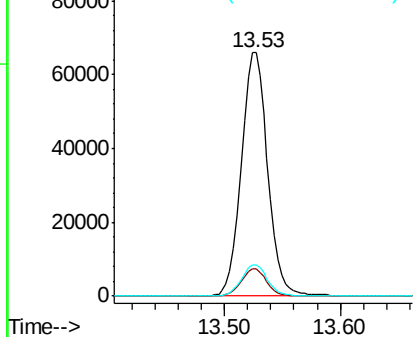


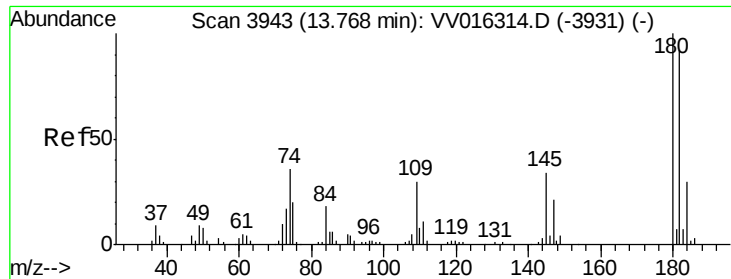
#70
 Naphthalene
 Concen: 5.581 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV016327.D
 Acq: 29 May 2020 21:20

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.8	10.6	15.8



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





#71

1,2,3-Trichlorobenzene

Concen: 5.095 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

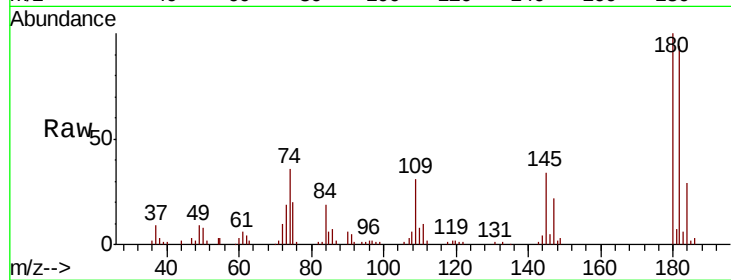
Lab File: VV016327.D

Acq: 29 May 2020 21:20

Instrument :

MSVOA_V

ClientSampleId :



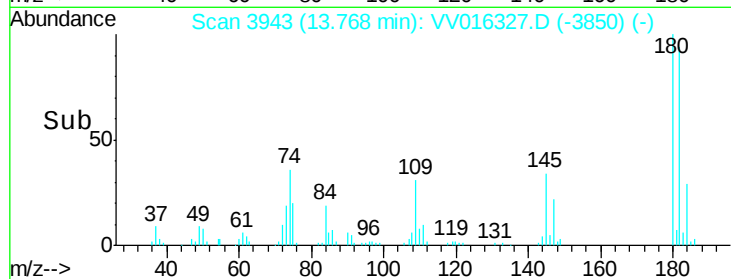
Tot Ion:180 Resp: 38669

Ion Ratio Lower Upper

180 100

182 95.5 77.1 115.7

145 34.6 28.6 42.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

