

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033901.D
 Acq On : 13 Jun 2019 17:11
 Operator : SY/AP
 Sample : VL0613ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 14 05:32:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1059525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2294715	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2962419	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1972500	8.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1298159	7.551	ppbv 98
3) Chlorodifluoromethane	3.00	51	1026647	8.231	ppbv 99
4) Chloromethane	3.16	50	588004	8.265	ppbv 99
5) Vinyl Chloride	3.28	62	594781	9.010	ppbv 99
6) Bromomethane	3.50	94	380978	8.687	ppbv 95
7) Chloroethane	3.59	64	226338	8.669	ppbv 96
8) Dichlorotetrafluoroethane	3.21	85	1581865	8.609	ppbv 100
9) Propene	3.03	41	409579	8.776	ppbv 100
10) Heptane	8.24	43	1238774	10.501	ppbv 99
11) Trichlorofluoromethane	3.99	101	2122343	9.567	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1390786	9.276	ppbv 99
13) Ethanol	3.64	45	110362	7.268	ppbv 97
14) Bromoethene	3.78	108	508064	9.094	ppbv 98
15) Acetone	3.89	43	1286682	8.327	ppbv 100
16) 1,3-Butadiene	3.35	39	529457	9.002	ppbv 99
17) tert-Butyl alcohol	4.34	59	1239808	10.264	ppbv 100
18) 1,1-Dichloroethene	4.34	96	603948	9.537	ppbv 96
19) Isopropyl Alcohol	4.01	45	944734	10.702	ppbv 99
20) Methylene Chloride	4.40	84	508547	8.439	ppbv 100
21) Allyl Chloride	4.47	41	855962	9.751	ppbv 99
22) trans-1,2-Dichloroethene	4.95	96	628470	9.415	ppbv 99
23) Vinyl Acetate	5.15	43	1749357	9.740	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1286081	9.206	ppbv 99
25) Ethyl Acetate	5.76	43	2347395	9.975	ppbv 100
26) Hexane	5.77	57	1049092	9.791	ppbv 98
27) Carbon Disulfide	4.61	76	1539376	10.341	ppbv 99
28) Methyl tert-Butyl Ether	5.10	73	1637281	10.105	ppbv 100
29) Chloroform	5.84	83	1828150	9.962	ppbv 100
30) Cyclohexane	7.23	84	810088	10.700	ppbv 99
31) cis-1,2-Dichloroethene	5.63	61	1053128	11.208	ppbv 99
32) 1,1,1-Trichloroethane	6.61	97	1842323	10.407	ppbv 99
34) 2-Butanone	5.32	43	1407017	10.869	ppbv 99
35) Carbon Tetrachloride	7.12	117	1967631	11.098	ppbv 99
36) Benzene	6.99	78	1977814	11.283	ppbv 98
37) 1,2-Dichloroethane	6.40	62	1404935	10.837	ppbv 100
38) Trichloroethene	7.95	130	827866	12.130	ppbv 92
39) 1,2-Dichloropropane	7.72	63	755870	11.173	ppbv 96
40) 1,4-Dioxane	7.94	88	335305	12.152	ppbv # 1
41) Tetrahydrofuran	6.13	42	804390	12.242	ppbv 99
42) Bromodichloromethane	7.90	83	1894414	10.935	ppbv 99
43) Methyl Methacrylate	8.12	69	800143	12.205	ppbv 99

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 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

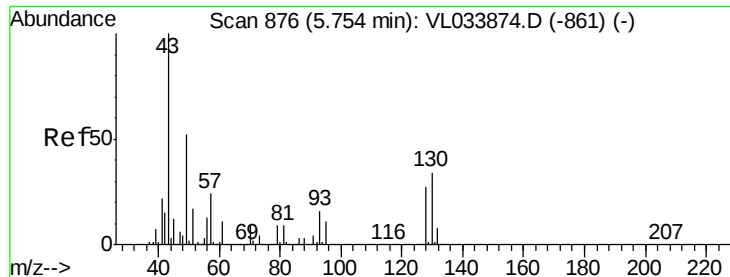
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 14 05:32:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
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 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.98	57	3444765	11.051	ppbv	99
45) t-1,3-Dichloropropene	9.40	75	1111812	12.925	ppbv	99
46) cis-1,3-Dichloropropene	8.82	75	1233792	12.519	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	859539	10.658	ppbv	98
48) Dibromochloromethane	10.44	129	1693758	11.686	ppbv	99
49) Bromoform	13.19	173	1524184	11.913	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2181160	11.299	ppbv	100
51) 2-Hexanone	10.26	43	1810522	12.011	ppbv #	100
52) Tetrachloroethene	11.36	164	813237	13.185	ppbv	96
53) Toluene	9.94	91	2353824	12.134	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1361721	11.201	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.27	131	1125886	8.700	ppbv	97
57) Chlorobenzene	12.29	112	1876278	8.456	ppbv	100
58) Ethyl Benzene	12.85	91	3338750	9.996	ppbv	99
59) m/p-Xylene	13.13	91	2910777	9.584	ppbv #	34
60) o-Xylene	13.84	91	2917509	9.304	ppbv	100
61) Styrene	13.67	104	2098633	10.341	ppbv	100
62) Isopropylbenzene	14.81	105	3878453	9.176	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	2074872	8.790	ppbv	99
64) n-propylbenzene	15.71	120	1024764	9.468	ppbv	96
65) tert-Butylbenzene	16.90	119	3685020	9.423	ppbv	100
66) Benzyl Chloride	17.15	91	1996594	10.074	ppbv	100
67) sec-Butylbenzene	17.45	105	5158832	9.403	ppbv	100
69) p-Isopropyltoluene	17.80	119	4279168	9.374	ppbv	100
70) n-Butylbenzene	18.70	91	4445252	8.891	ppbv	100
71) 2-Chlorotoluene	15.60	91	2964303	9.520	ppbv	99
72) 4-Ethyltoluene	15.99	105	3454652	9.681	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3317343	9.437	ppbv	98
74) 1,2,4-Trimethylbenzene	16.91	105	3563807	8.796	ppbv	97
75) 1,3-Dichlorobenzene	17.15	146	2096018	8.261	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2039804	8.756	ppbv	100
77) 1,2-Dichlorobenzene	17.97	146	1964974	8.392	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1461195	7.990	ppbv	99
79) Naphthalene	22.39	128	2653781	8.195	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	1014086	7.848	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.12	180	1605429	7.852	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

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ClientSampleId :

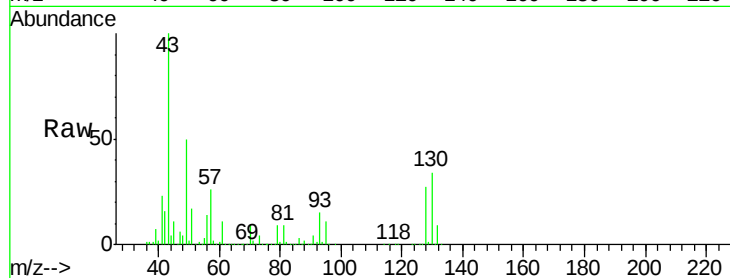
Tot Ion: 49 Resp: 1059525

Ion Ratio Lower Upper

49 100

128 50.7 25.5 76.5

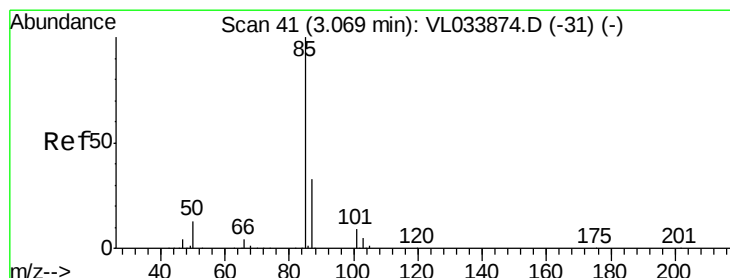
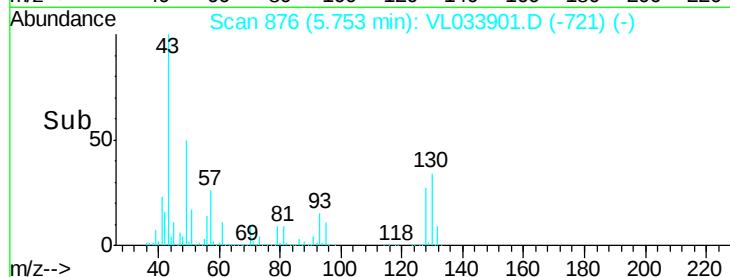
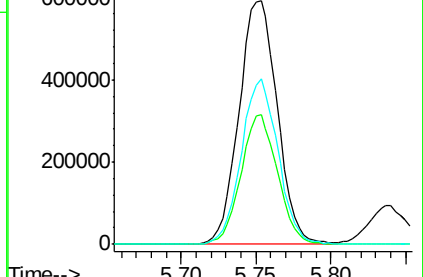
130 65.2 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.551 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033901.D

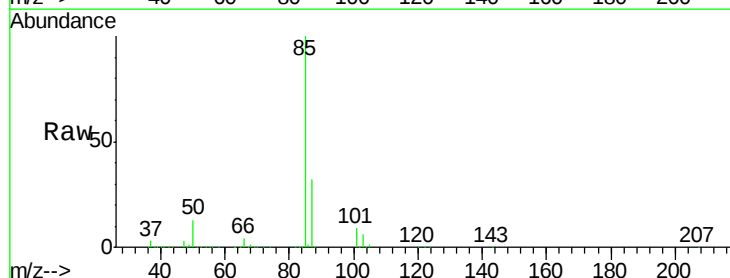
Acq: 13 Jun 2019 17:11

Tgt Ion: 85 Resp: 1298159

Ion Ratio Lower Upper

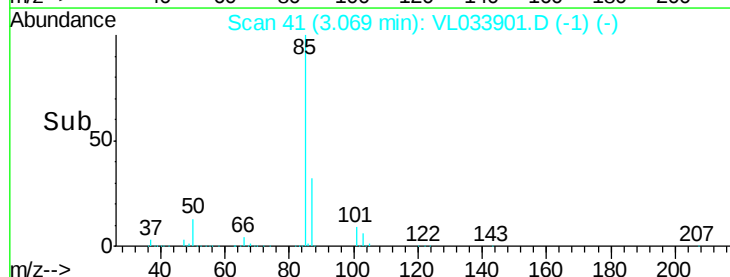
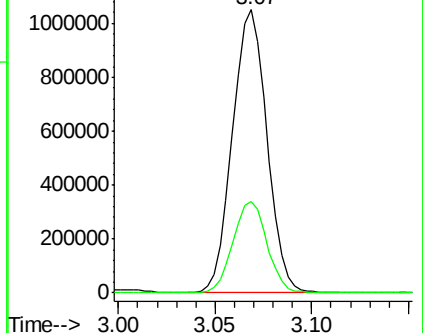
85 100

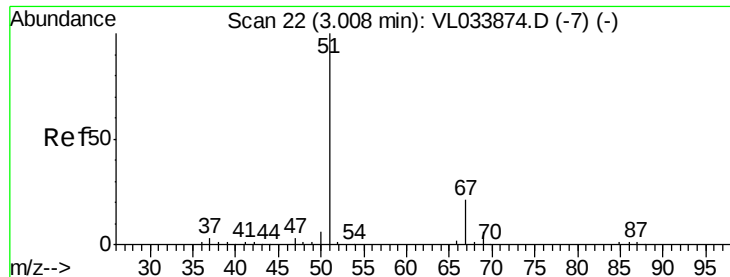
87 32.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

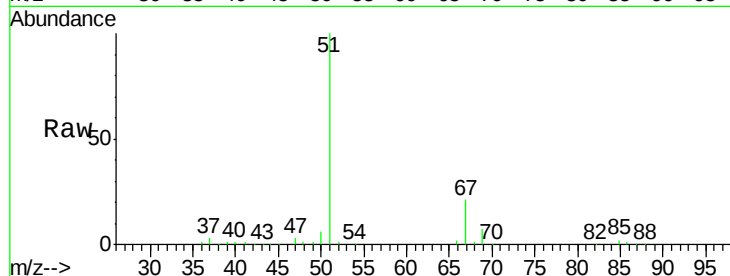




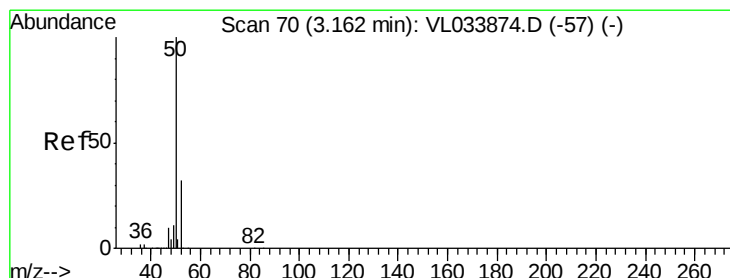
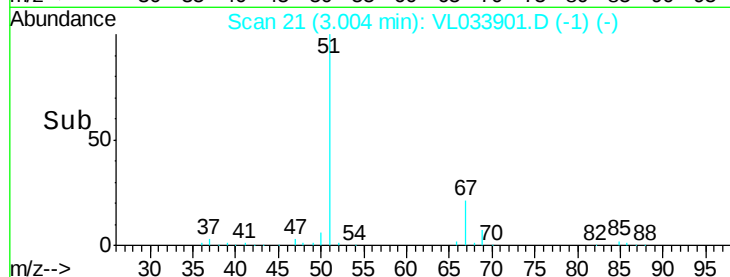
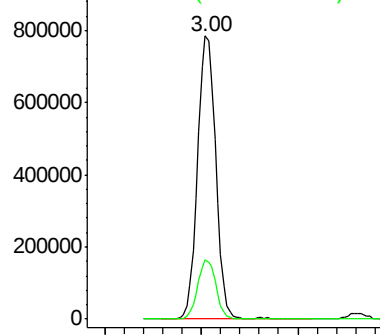
#3
Chlorodifluoromethane
Concen: 8.231 ppbv
RT: 3.00 min Scan# 21
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 1026647
Ion Ratio Lower Upper
51 100
67 21.1 16.4 24.6

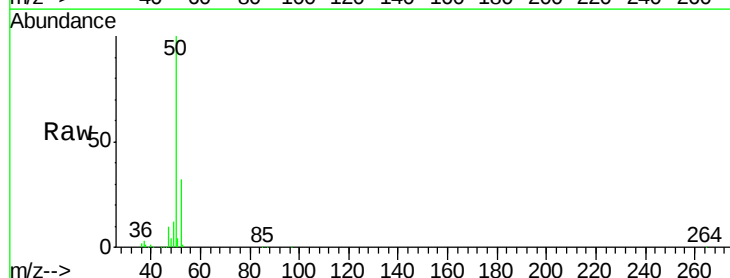


Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0

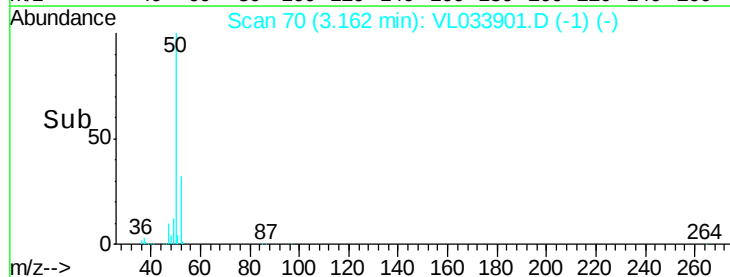
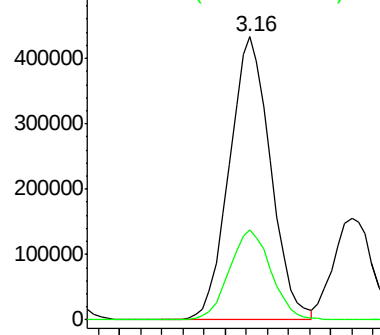


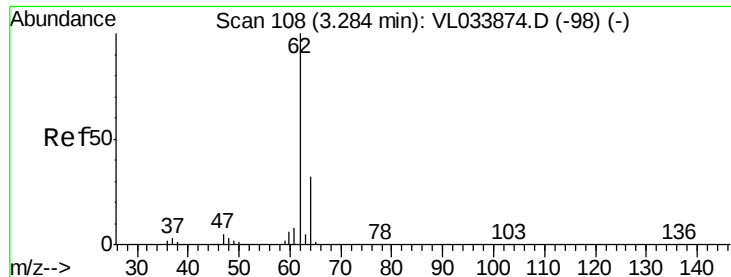
#4
Chloromethane
Concen: 8.265 ppbv
RT: 3.16 min Scan# 70
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 50 Resp: 588004
Ion Ratio Lower Upper
50 100
52 32.1 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.010 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

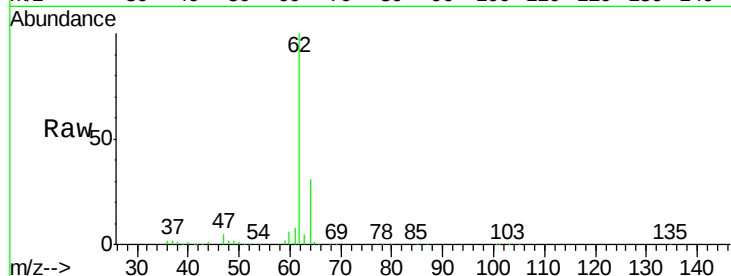
ClientSampled :

Tot Ion: 62 Resp: 594781

Ion Ratio Lower Upper

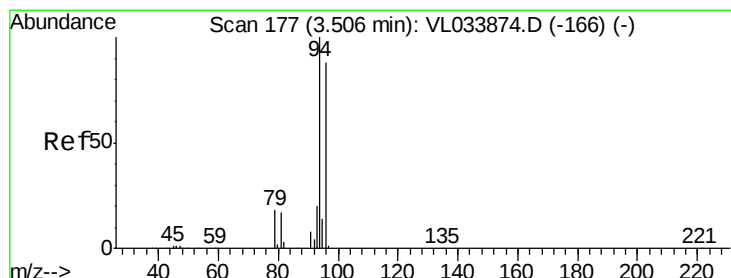
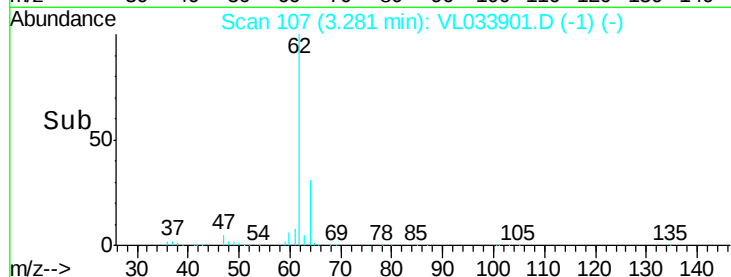
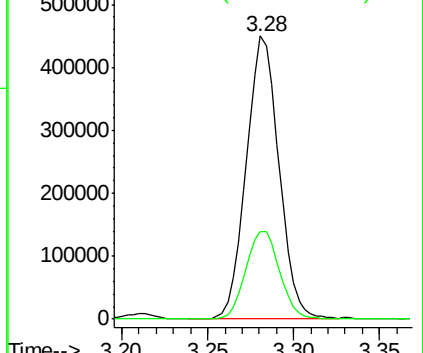
62 100

64 30.9 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.687 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033901.D

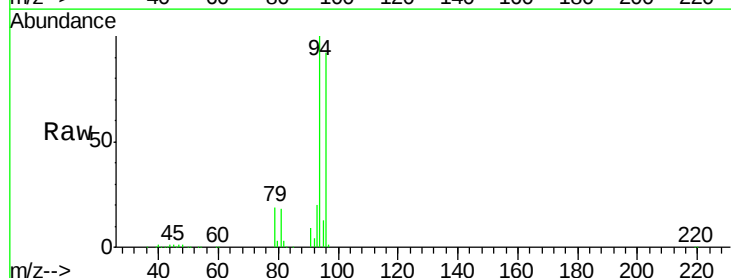
Acq: 13 Jun 2019 17:11

Tgt Ion: 94 Resp: 380978

Ion Ratio Lower Upper

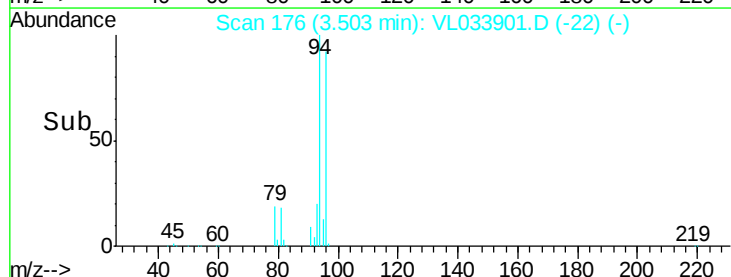
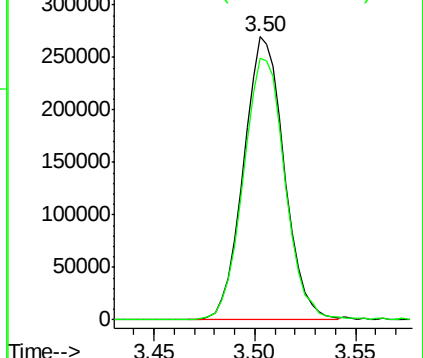
94 100

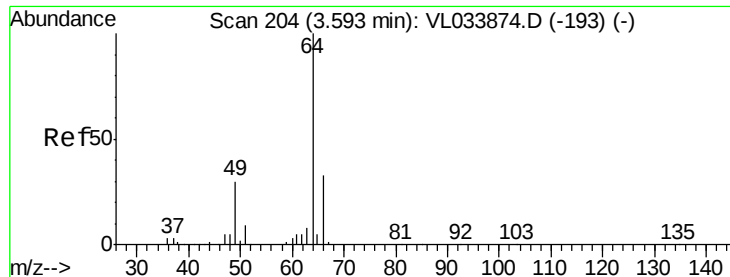
96 92.2 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.669 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

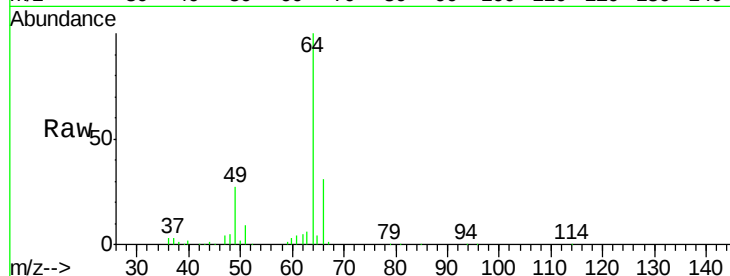
ClientSampleId :

Tot Ion: 64 Resp: 226338

Ion Ratio Lower Upper

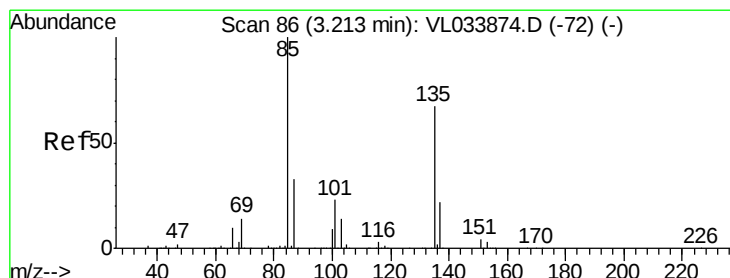
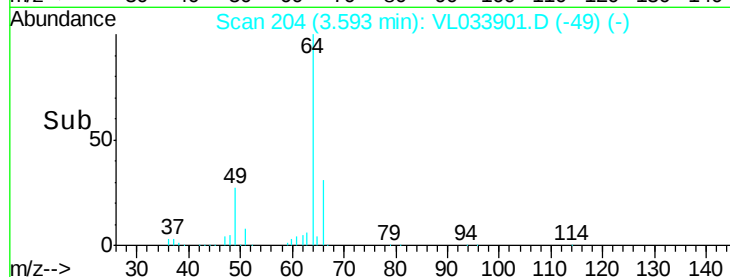
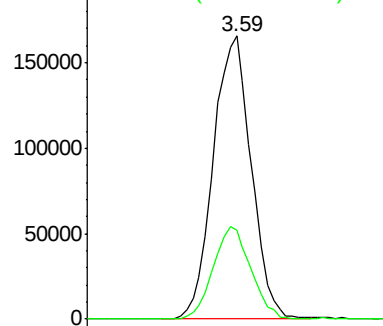
64 100

66 31.4 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.609 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033901.D

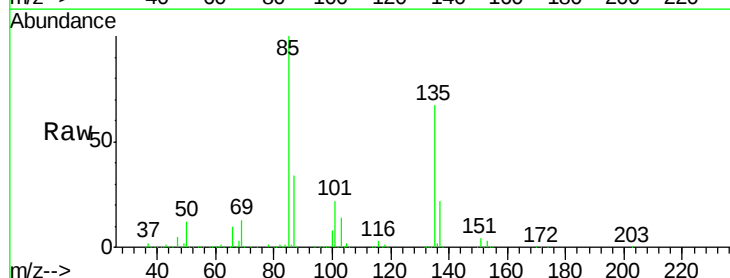
Acq: 13 Jun 2019 17:11

Tgt Ion: 85 Resp: 1581865

Ion Ratio Lower Upper

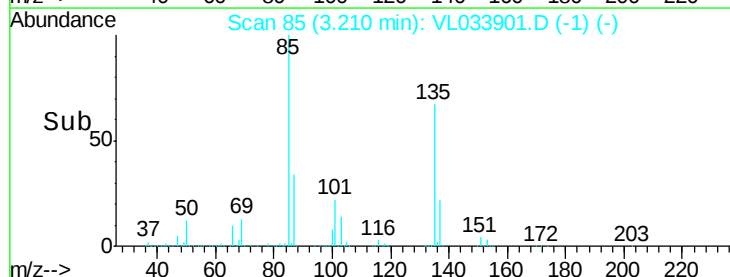
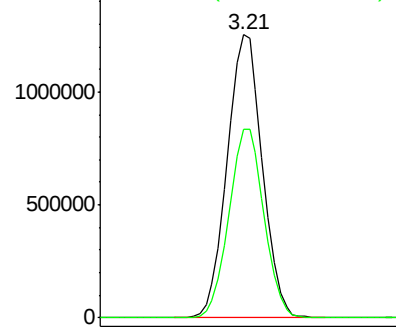
85 100

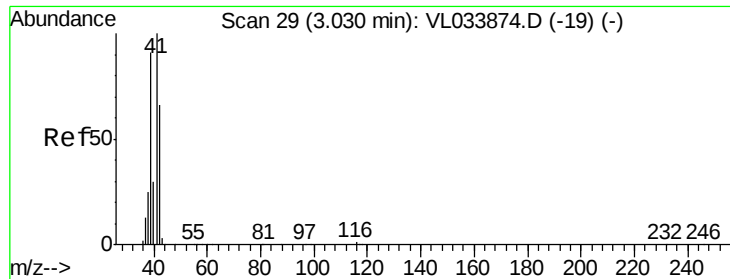
135 67.0 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.776 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

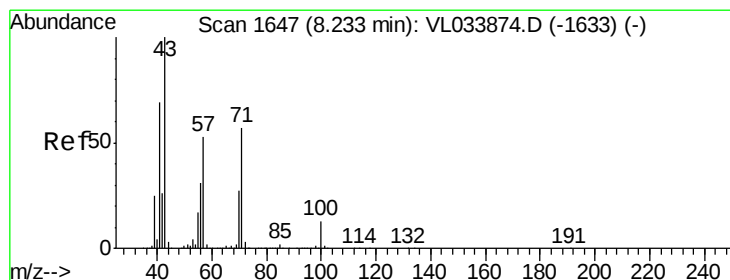
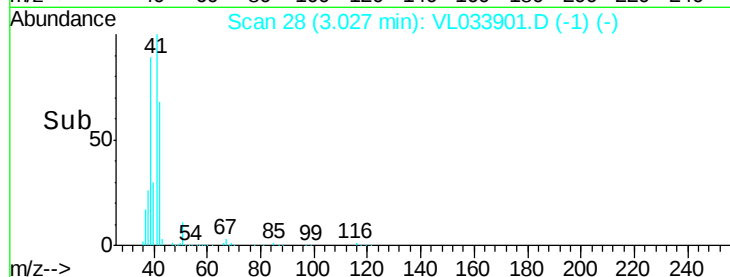
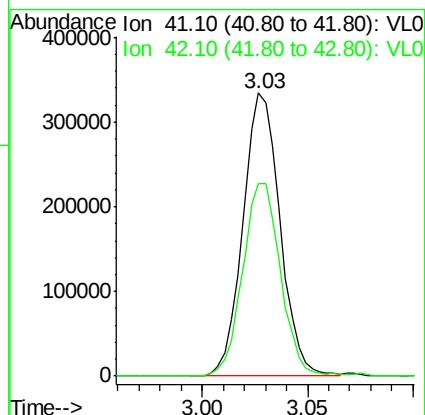
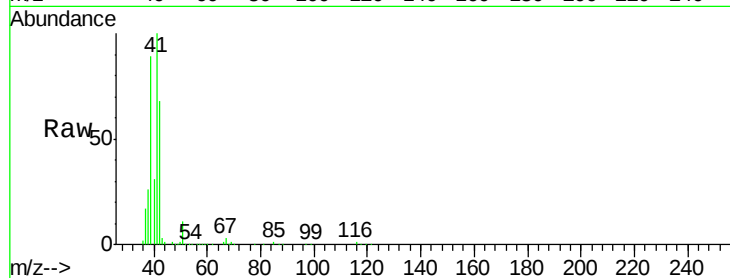
ClientSampleId :

Tot Ion: 41 Resp: 409579

Ion Ratio Lower Upper

41 100

42 70.1 56.3 84.5



#10

Heptane

Concen: 10.501 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VL033901.D

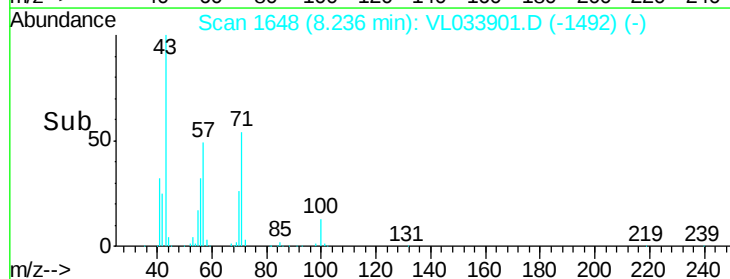
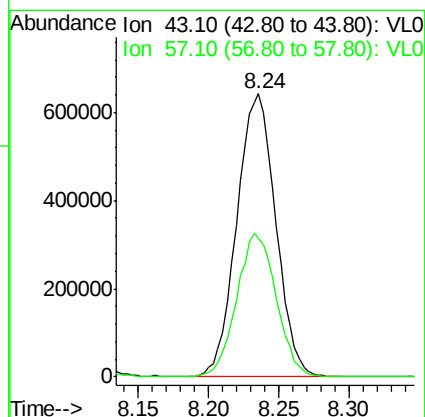
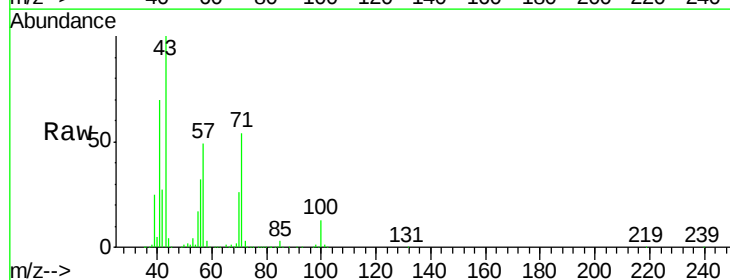
Acq: 13 Jun 2019 17:11

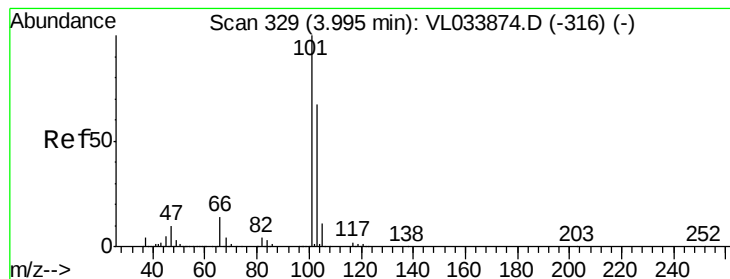
Tgt Ion: 43 Resp: 1238774

Ion Ratio Lower Upper

43 100

57 51.6 41.7 62.5





#11

Trichlorofluoromethane

Concen: 9.567 ppbv

RT: 3.99 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

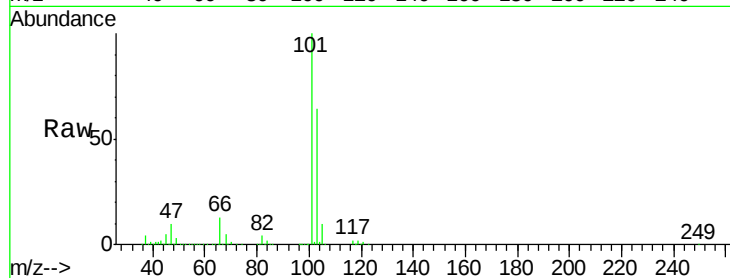
ClientSampleId :

Tot Ion:101 Resp: 2122343

Ion Ratio Lower Upper

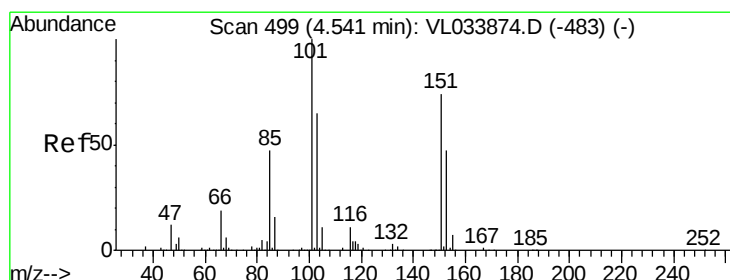
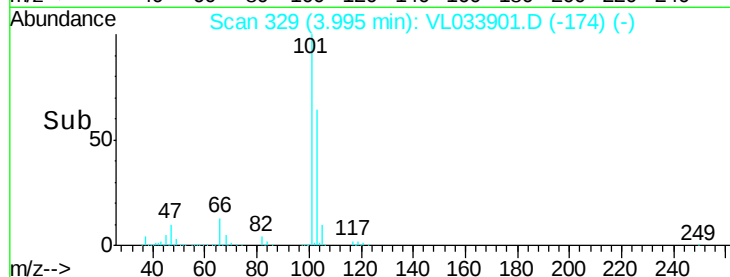
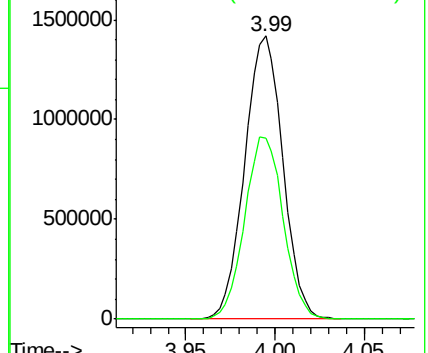
101 100

103 64.1 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.276 ppbv

RT: 4.54 min Scan# 499

Delta R.T. -0.00 min

Lab File: VL033901.D

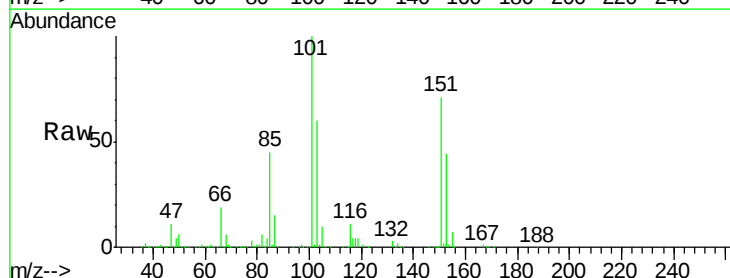
Acq: 13 Jun 2019 17:11

Tgt Ion:101 Resp: 1390786

Ion Ratio Lower Upper

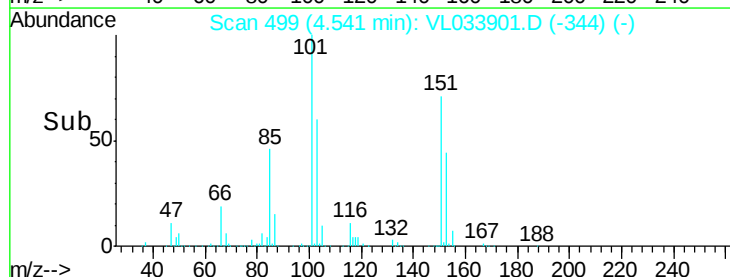
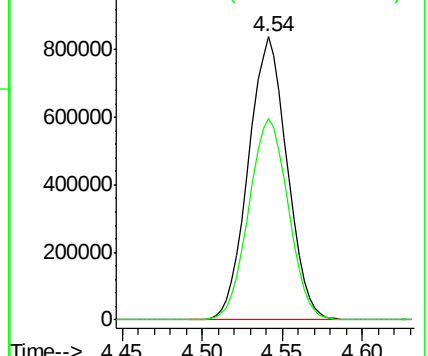
101 100

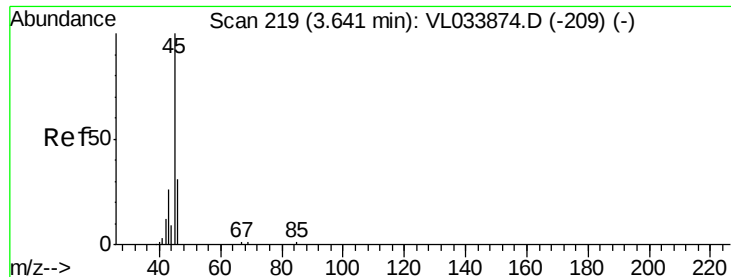
151 72.6 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

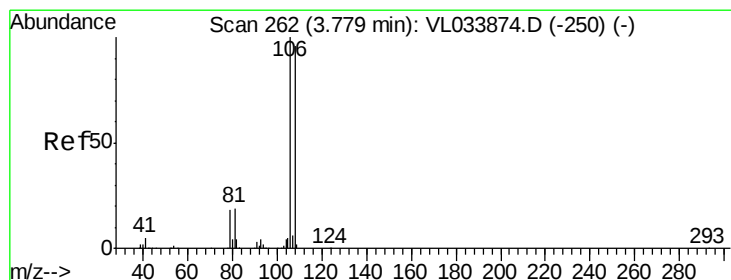
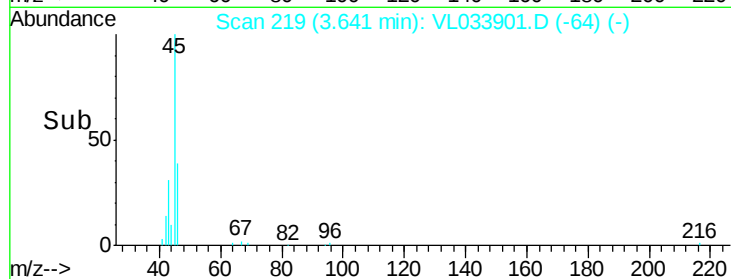
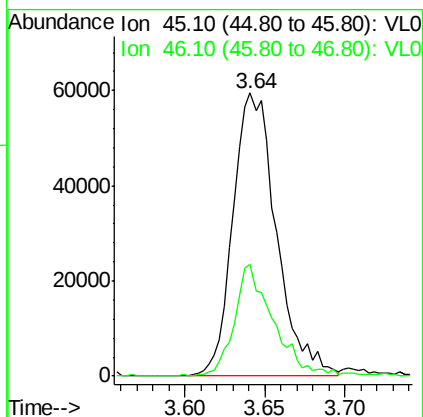
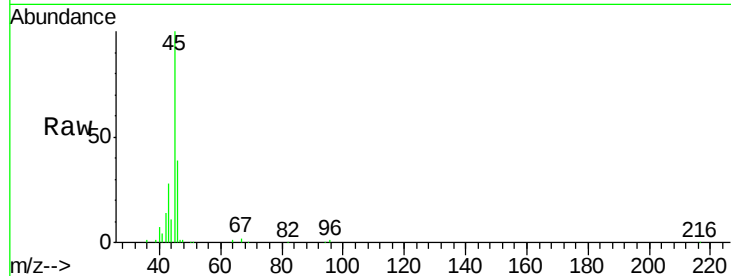




#13
Ethanol
Concen: 7.268 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

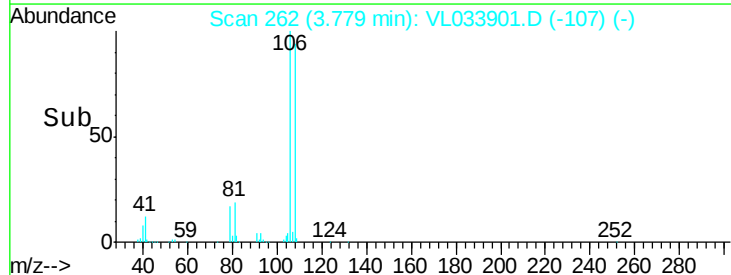
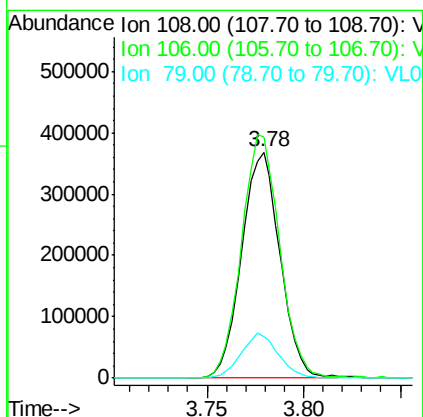
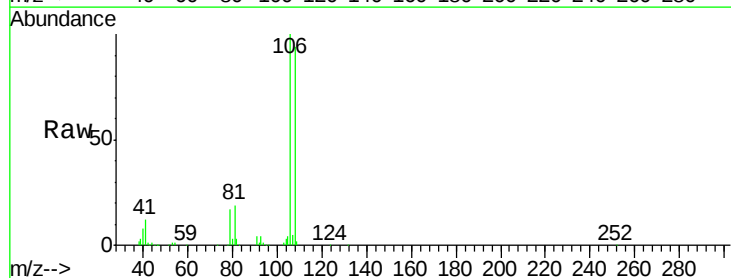
Instrument :
MSVOA_L
ClientSampleId :

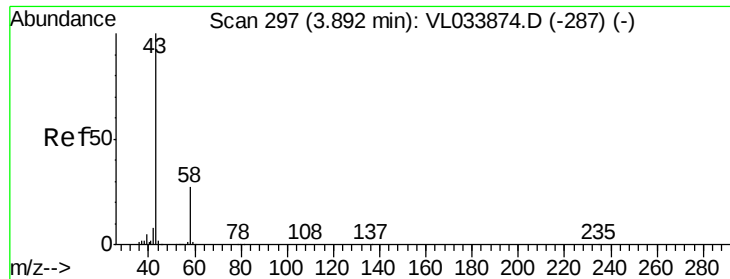
Tot Ion: 45 Resp: 110362
Ion Ratio Lower Upper
45 100
46 36.1 15.3 61.1



#14
Bromoethene
Concen: 9.094 ppbv
RT: 3.78 min Scan# 262
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 108 Resp: 508064
Ion Ratio Lower Upper
108 100
106 108.3 84.9 127.3
79 19.4 15.4 23.0





#15

Acetone

Concen: 8.327 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

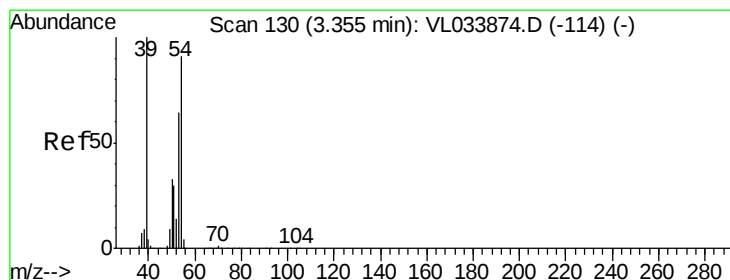
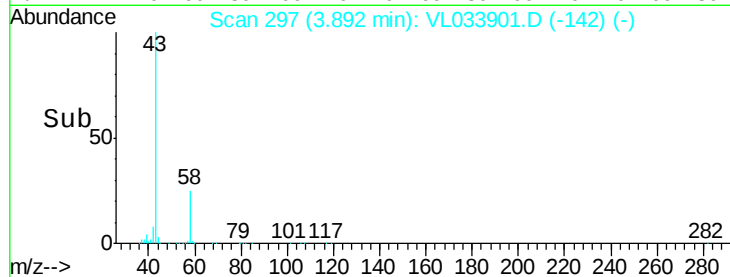
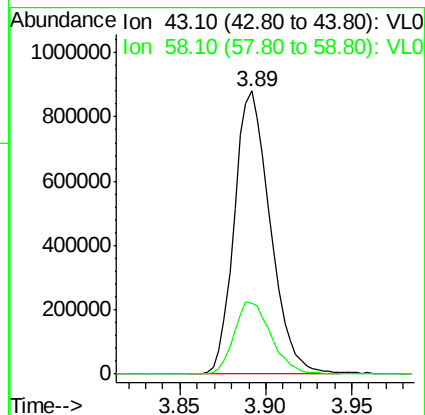
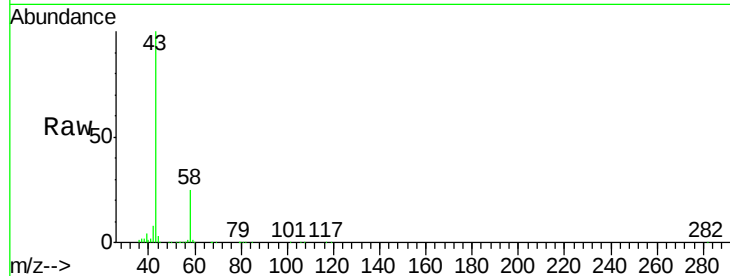
ClientSampleId :

Tot Ion: 43 Resp: 1286682

Ion Ratio Lower Upper

43 100

58 26.4 21.3 31.9



#16

1,3-Butadiene

Concen: 9.002 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.00 min

Lab File: VL033901.D

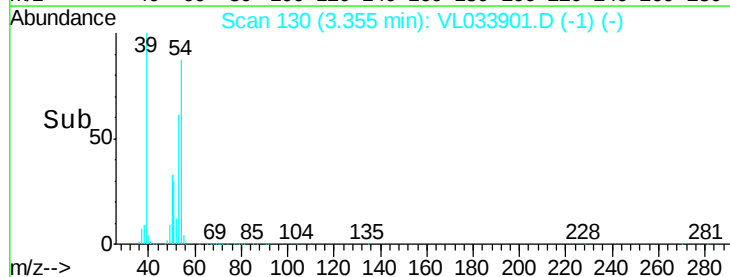
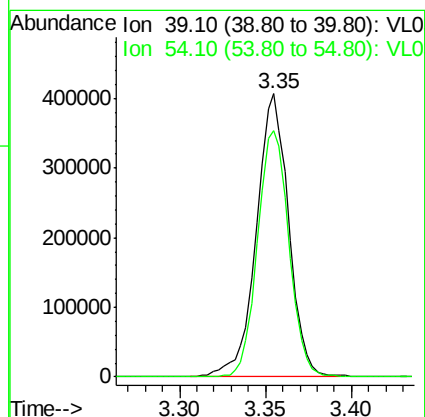
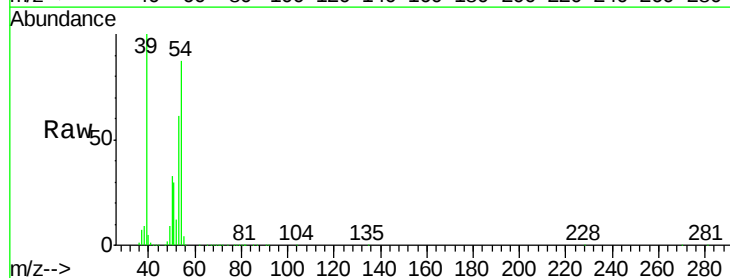
Acq: 13 Jun 2019 17:11

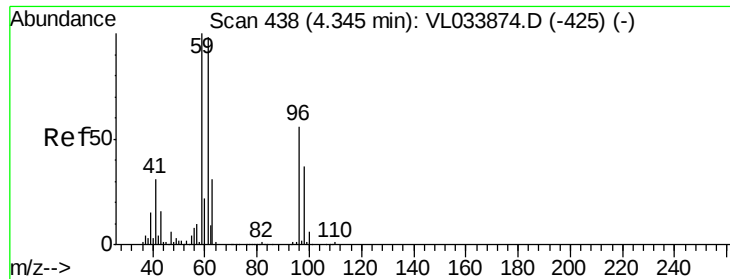
Tgt Ion: 39 Resp: 529457

Ion Ratio Lower Upper

39 100

54 85.0 68.6 103.0



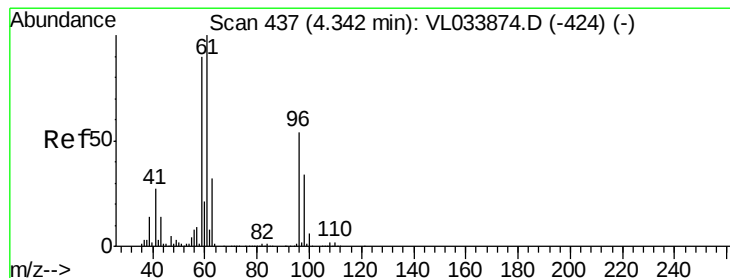
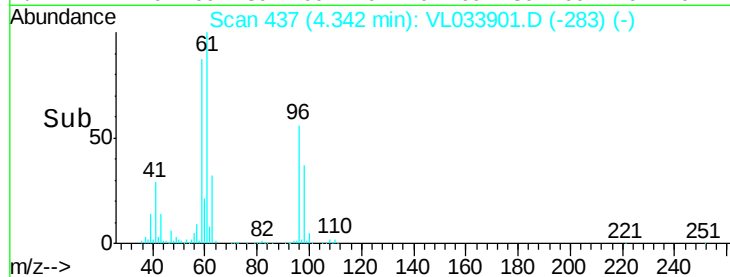
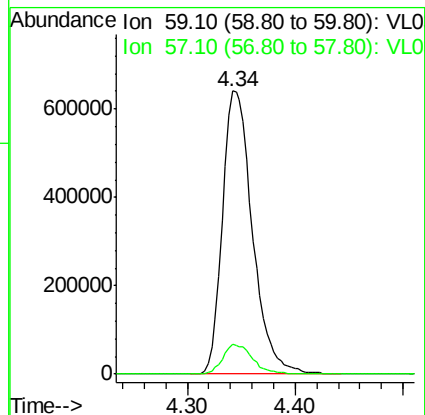
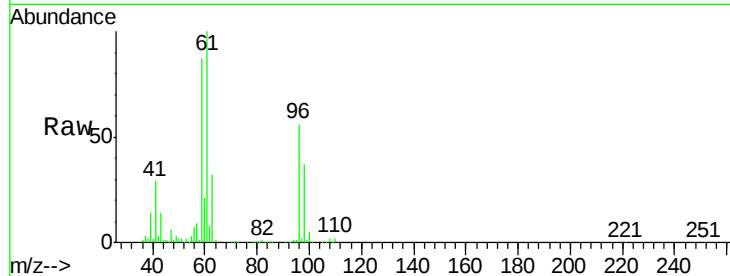


#17

tert-Butyl alcohol
 Concen: 10.264 ppbv
 RT: 4.34 min Scan# 437
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :

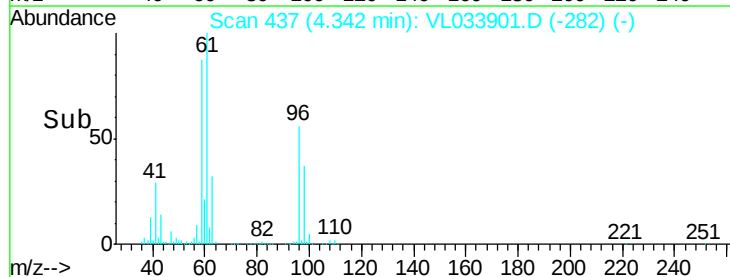
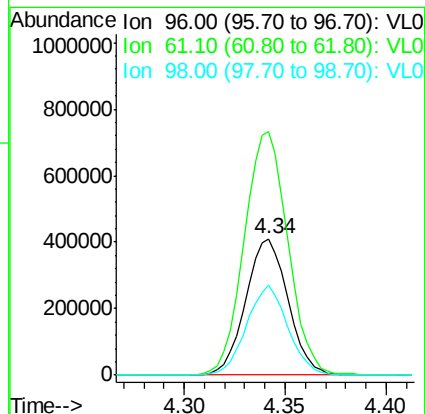
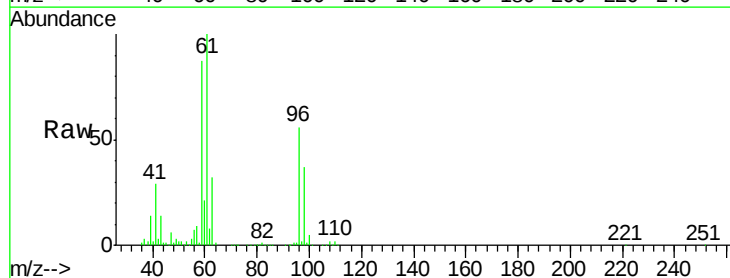
Tot Ion: 59 Resp: 1239808
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.4 12.6

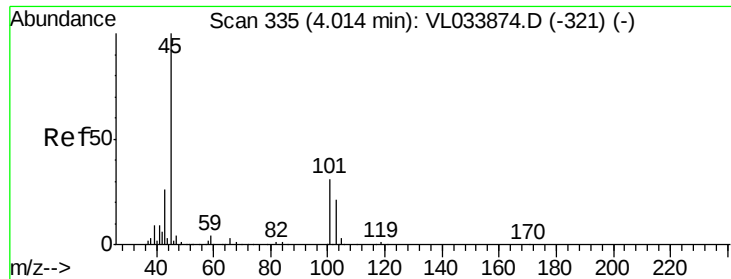


#18

1,1-Dichloroethene
 Concen: 9.537 ppbv
 RT: 4.34 min Scan# 437
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 96 Resp: 603948
 Ion Ratio Lower Upper
 96 100
 61 178.3 147.0 220.6
 98 65.9 49.4 74.0



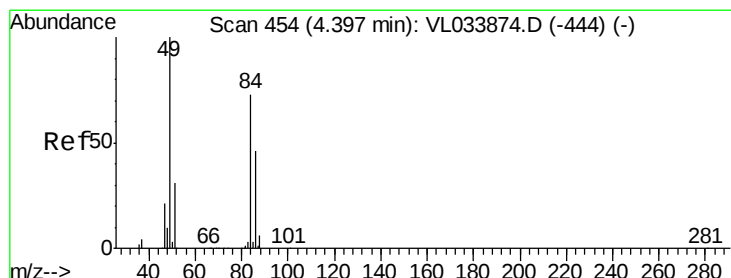
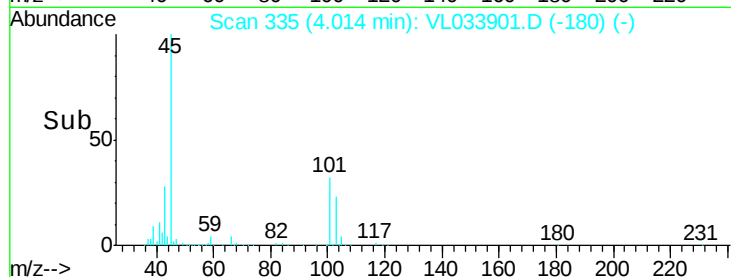
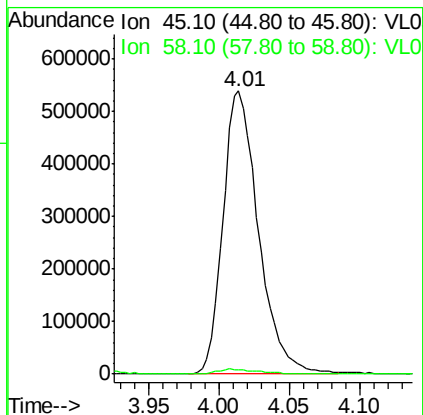
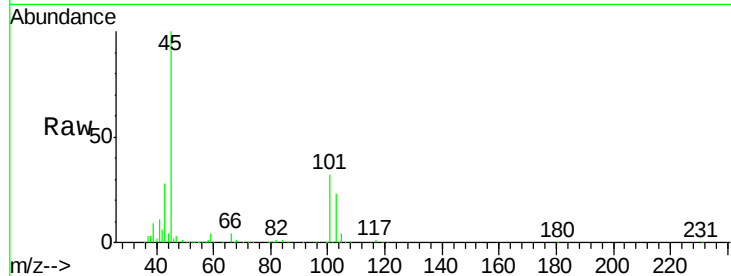


#19

Isopropyl Alcohol
 Concen: 10.702 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :

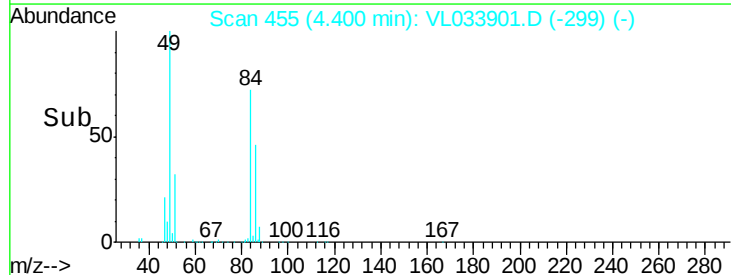
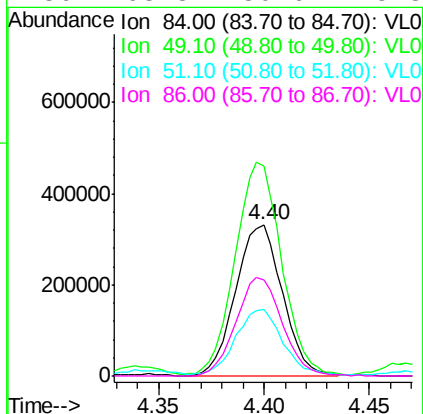
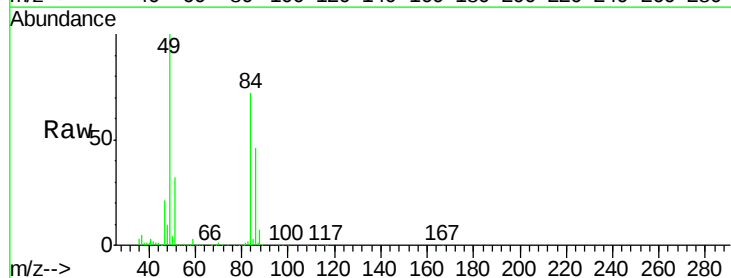
Tot Ion: 45 Resp: 944734
 Ion Ratio Lower Upper
 45 100
 58 2.4 1.8 2.6

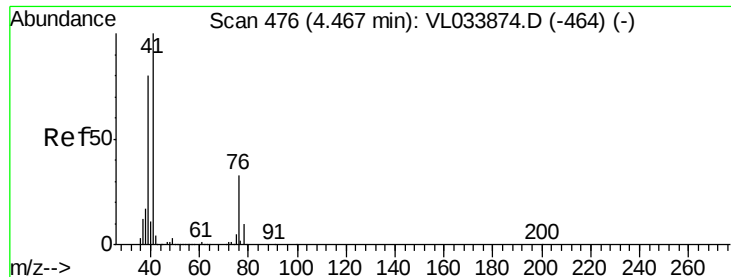


#20

Methylene Chloride
 Concen: 8.439 ppbv
 RT: 4.40 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 84 Resp: 508547
 Ion Ratio Lower Upper
 84 100
 49 137.3 110.0 165.0
 51 43.7 34.6 51.8
 86 63.8 50.6 75.8

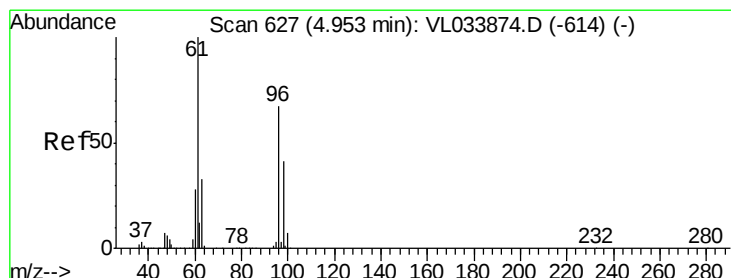
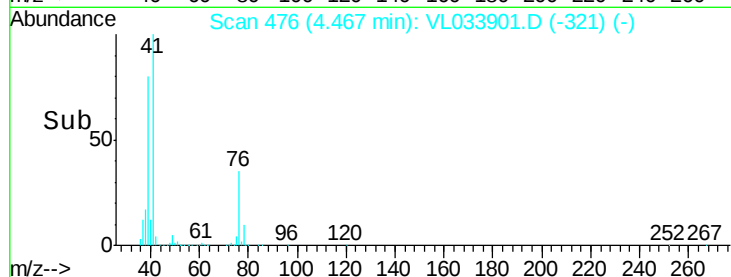
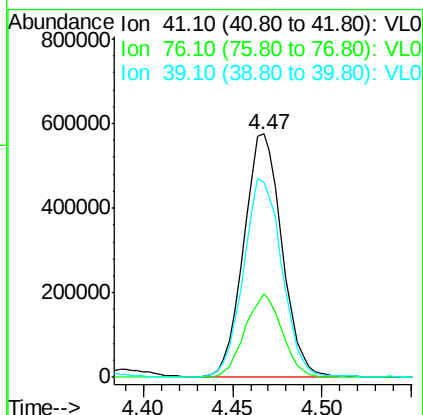
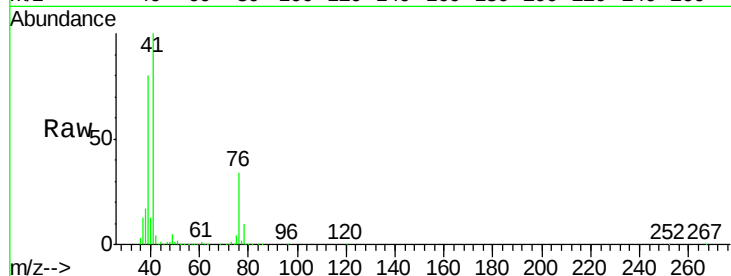




#21
Allvl Chloride
Concen: 9.751 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

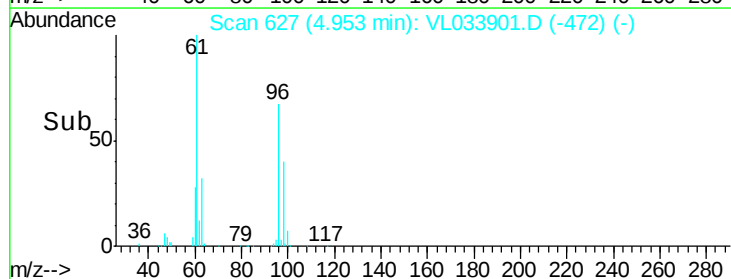
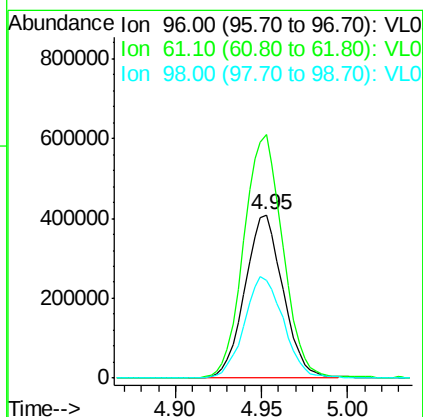
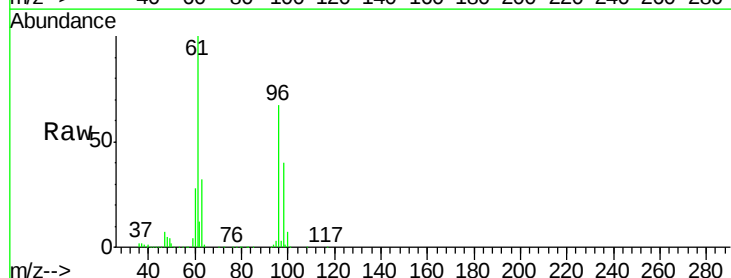
Instrument :
MSVOA_L
ClientSampleId :

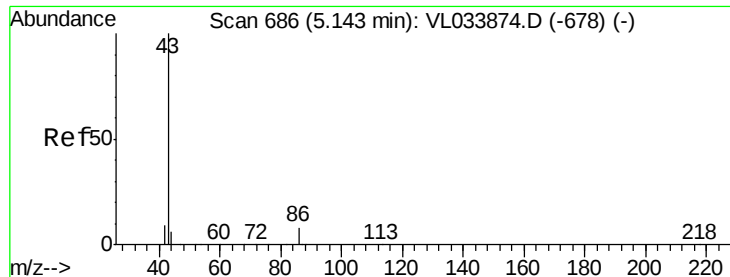
Tot Ion: 41 Resp: 855962
Ion Ratio Lower Upper
41 100
76 33.5 26.6 39.8
39 82.5 65.2 97.8



#22
trans-1,2-Dichloroethene
Concen: 9.415 ppbv
RT: 4.95 min Scan# 627
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 96 Resp: 628470
Ion Ratio Lower Upper
96 100
61 149.3 119.0 178.6
98 59.6 48.3 72.5





#23

Vinyl Acetate

Concen: 9.740 ppbv

RT: 5.15 min Scan# 687

Delta R.T. 0.00 min

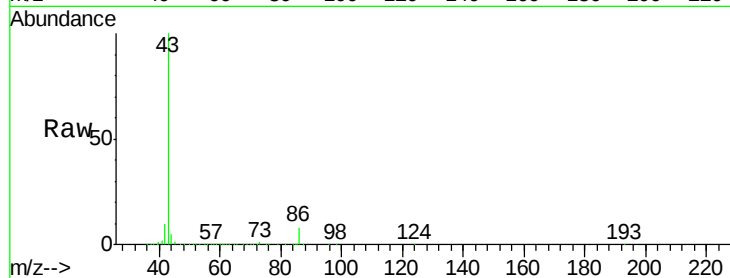
Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

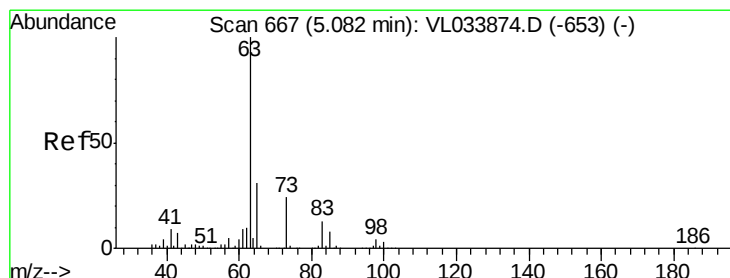
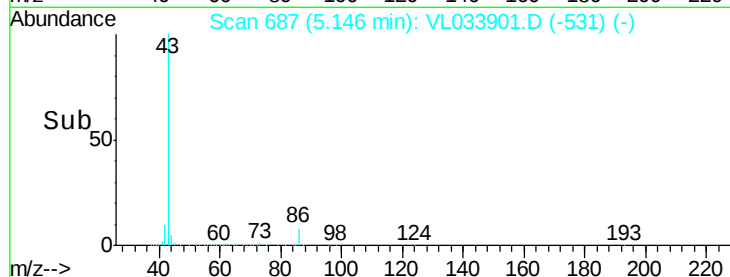
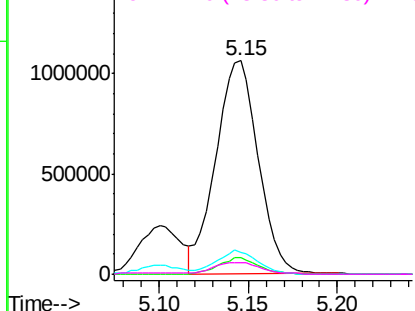
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1749357

Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.8	8.8
42	9.9	7.8	11.8
44	5.0	4.2	6.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.206 ppbv

RT: 5.08 min Scan# 667

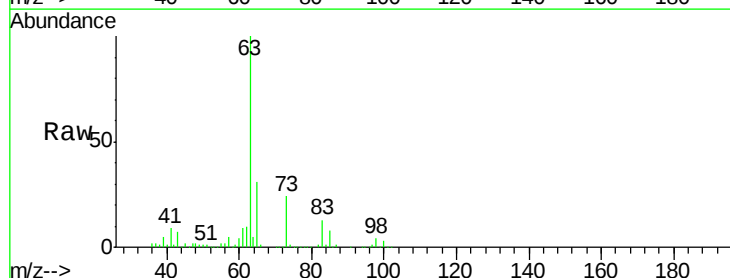
Delta R.T. -0.00 min

Lab File: VL033901.D

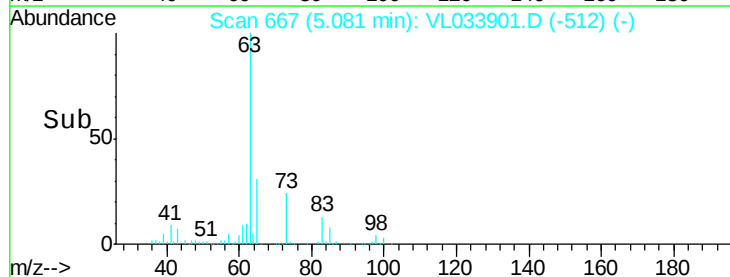
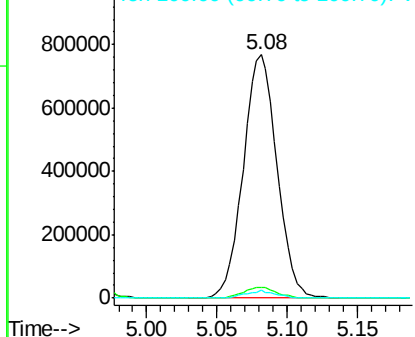
Acq: 13 Jun 2019 17:11

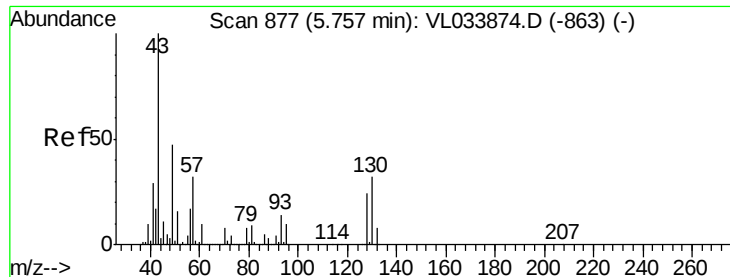
Tgt Ion: 63 Resp: 1286081

Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.2	6.6
100	3.2	1.3	3.8



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



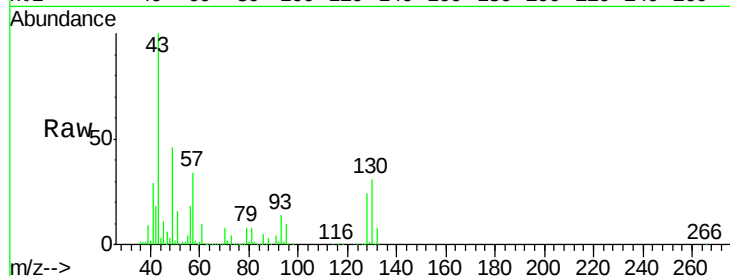


#25
Ethyl Acetate
Concen: 9.975 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

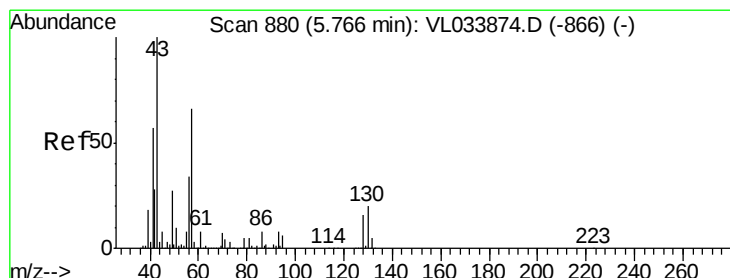
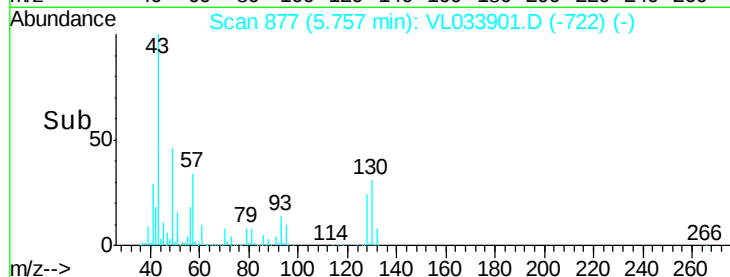
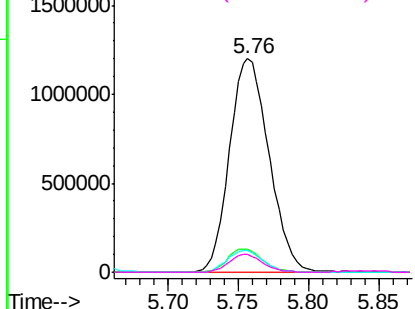
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2347395

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.4	7.8	11.6
70	7.3	5.8	8.6



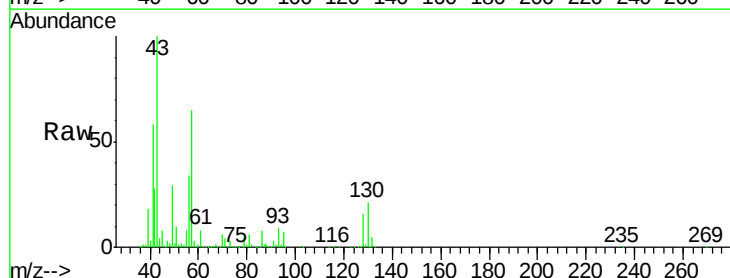
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



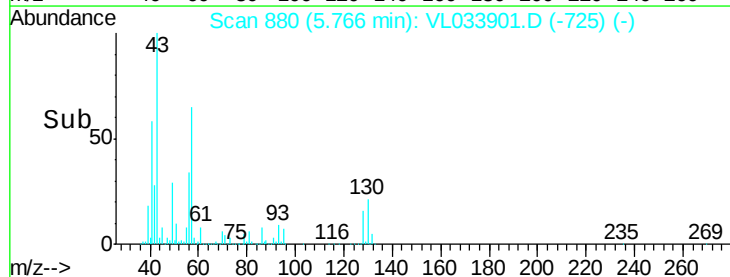
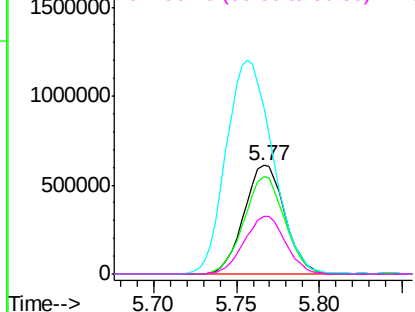
#26
Hexane
Concen: 9.791 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

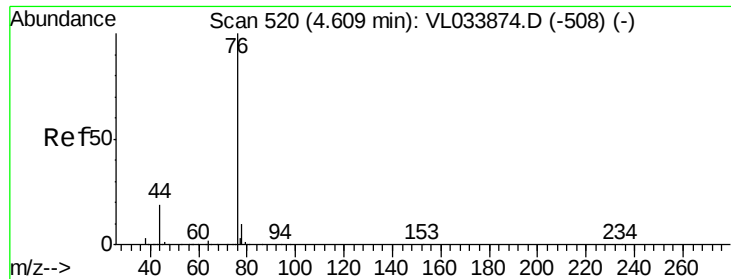
Tgt Ion: 57 Resp: 1049092

Ion	Ratio	Lower	Upper
57	100		
41	89.9	71.4	107.2
43	225.2	183.7	275.5
56	53.6	42.7	64.1



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.341 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

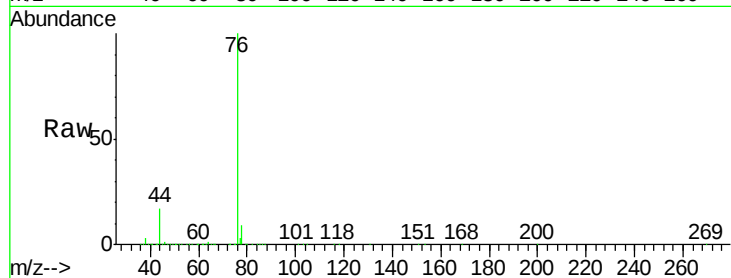
Tot Ion: 76 Resp: 1539376

Ion Ratio Lower Upper

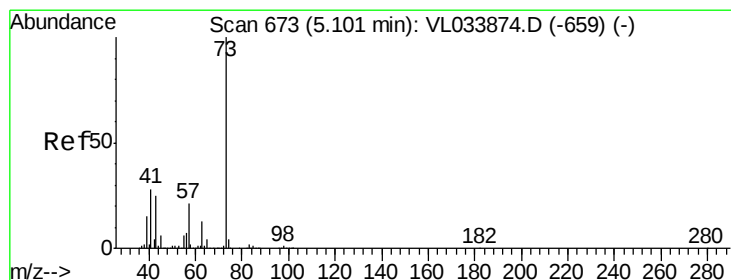
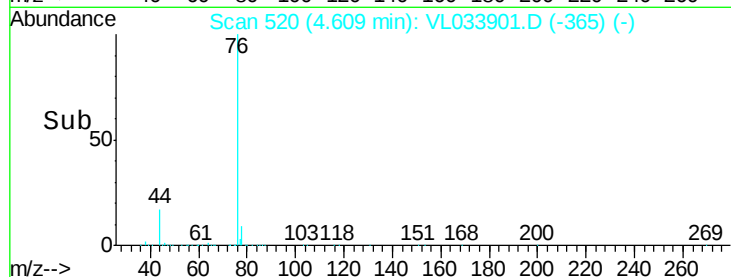
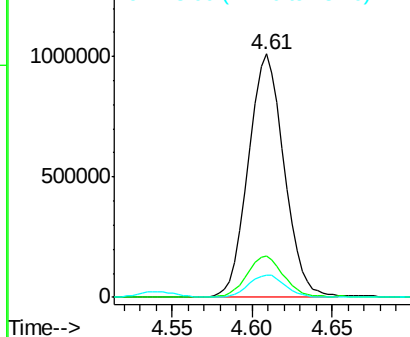
76 100

44 17.1 14.4 21.6

78 9.4 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.105 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL033901.D

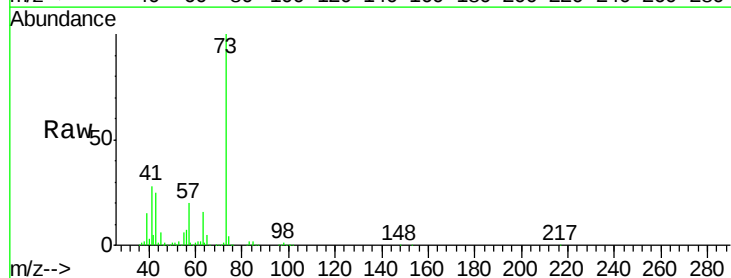
Acq: 13 Jun 2019 17:11

Tgt Ion: 73 Resp: 1637281

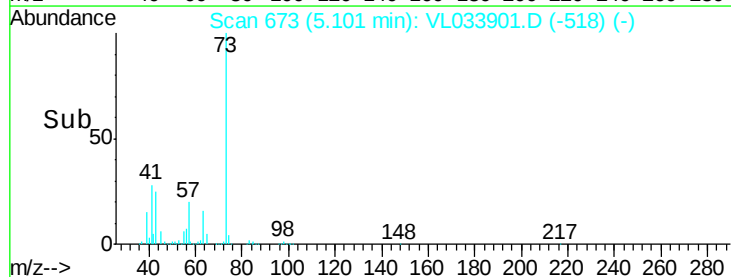
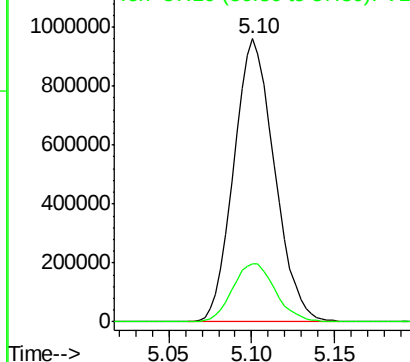
Ion Ratio Lower Upper

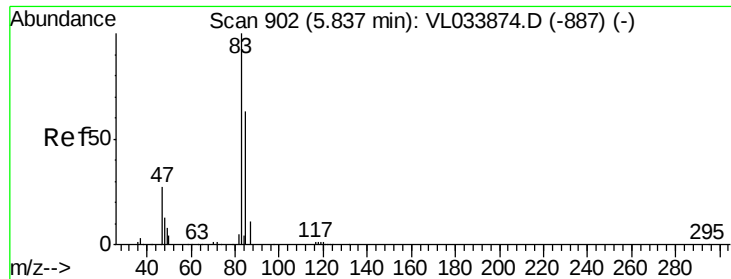
73 100

57 21.7 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

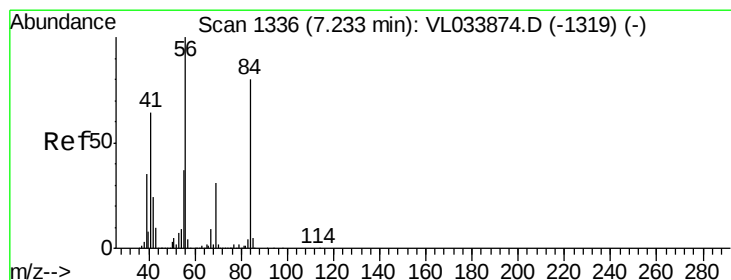
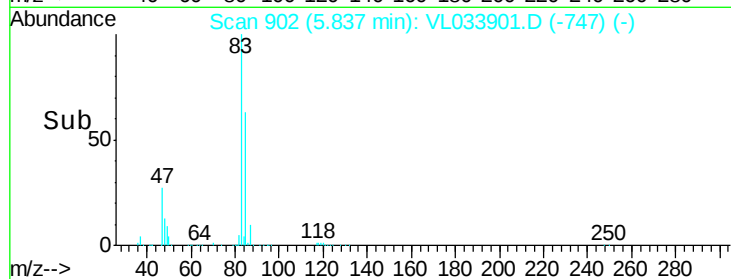
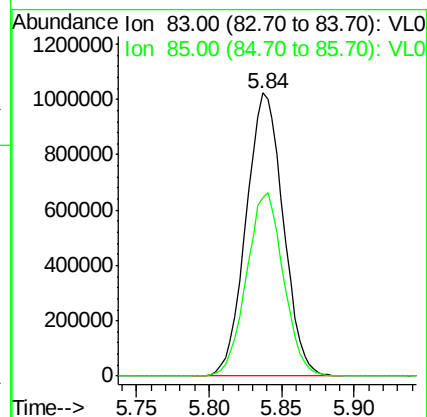
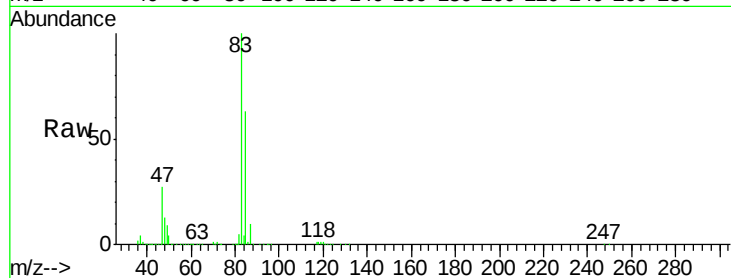




#29
Chloroform
Concen: 9.962 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

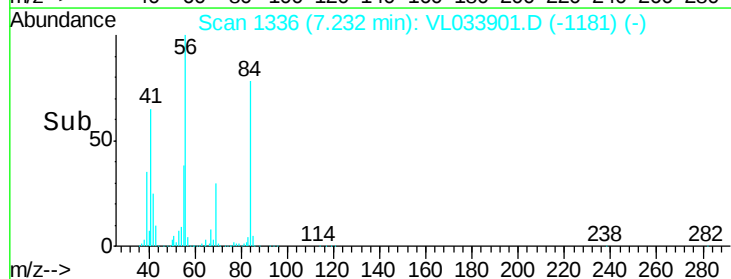
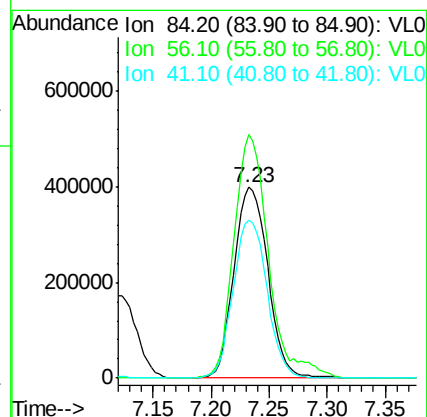
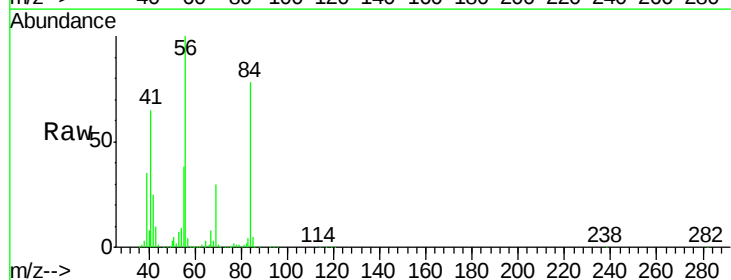
Instrument :
MSVOA_L
ClientSampleId :

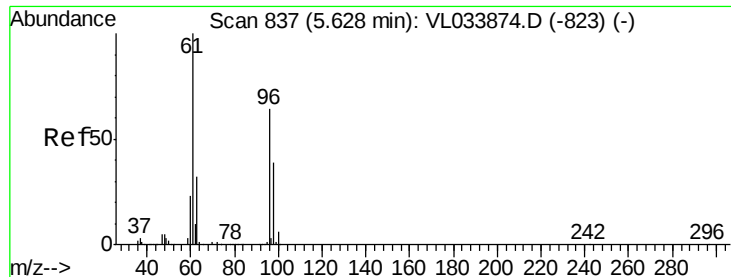
Tot Ion: 83 Resp: 1828150
Ion Ratio Lower Upper
83 100
85 63.1 50.5 75.7



#30
Cyclohexane
Concen: 10.700 ppbv
RT: 7.23 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion: 84 Resp: 810088
Ion Ratio Lower Upper
84 100
56 130.3 105.8 158.8
41 82.4 65.7 98.5



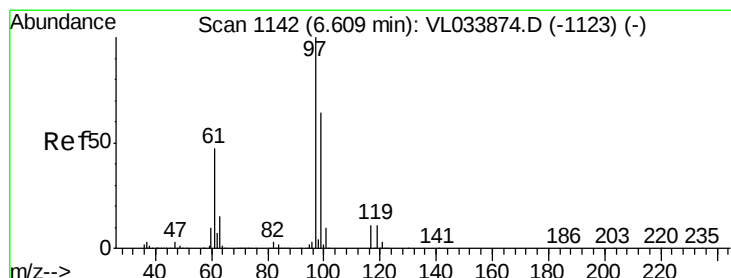
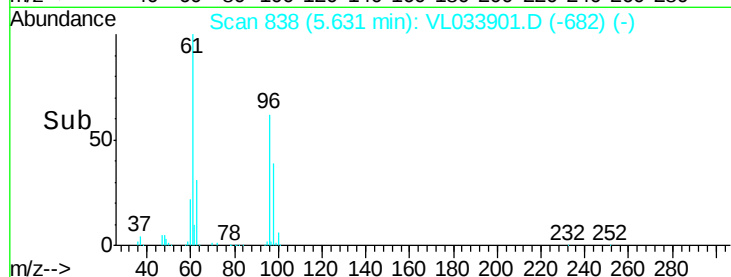
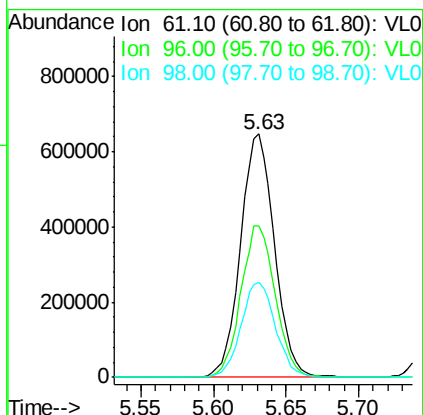
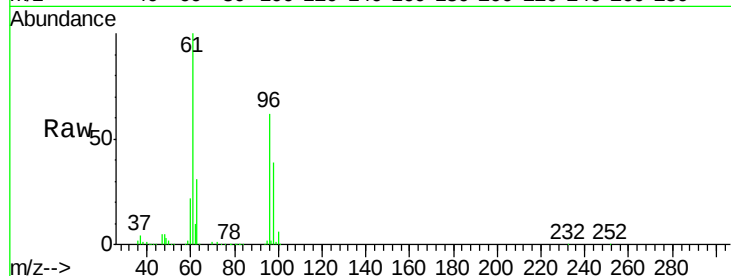


#31

cis-1,2-Dichloroethene
 Concen: 11.208 ppbv
 RT: 5.63 min Scan# 838
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampled :

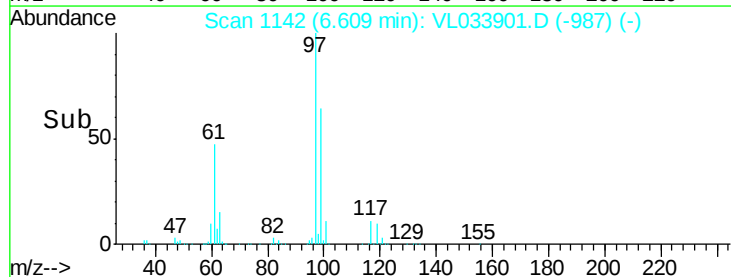
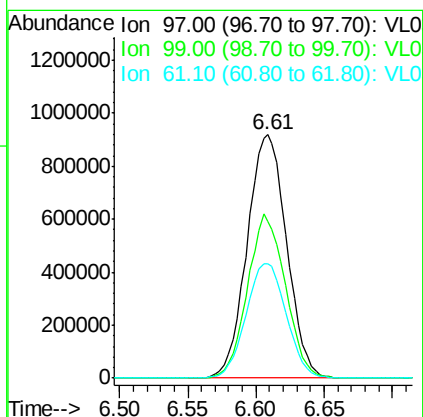
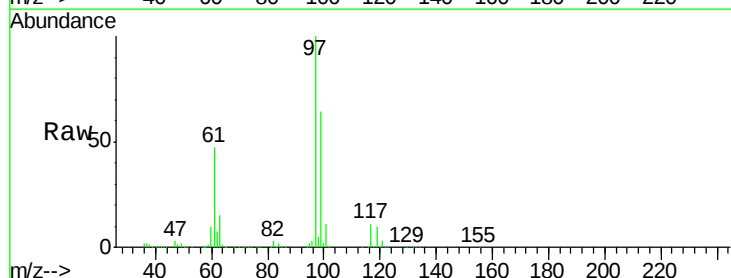
Tot Ion: 61 Resp: 1053128
 Ion Ratio Lower Upper
 61 100
 96 62.2 50.9 76.3
 98 38.8 31.4 47.2

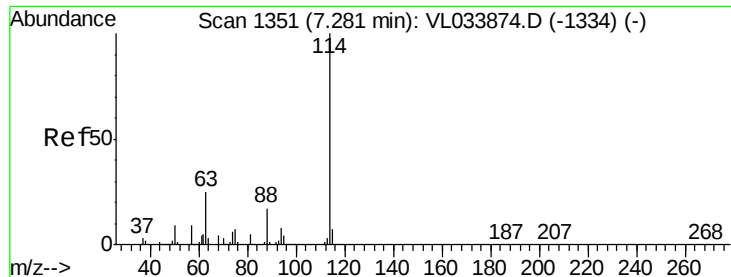


#32

1,1,1-Trichloroethane
 Concen: 10.407 ppbv
 RT: 6.61 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 97 Resp: 1842323
 Ion Ratio Lower Upper
 97 100
 99 64.9 51.7 77.5
 61 48.1 37.7 56.5

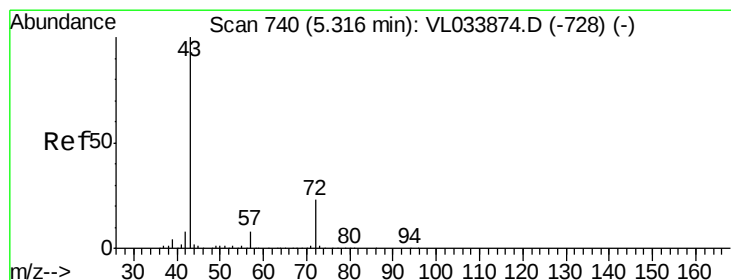
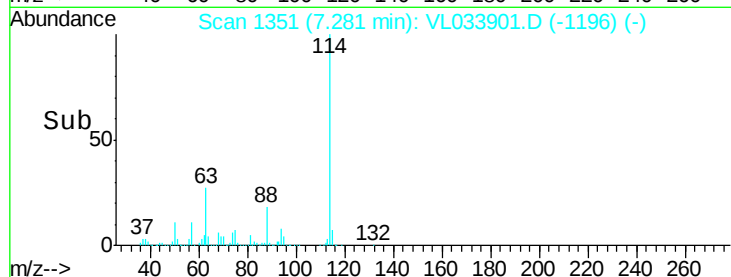
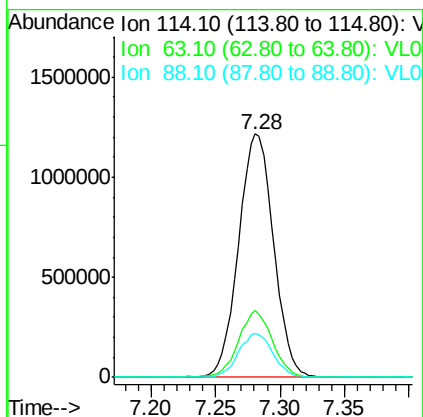
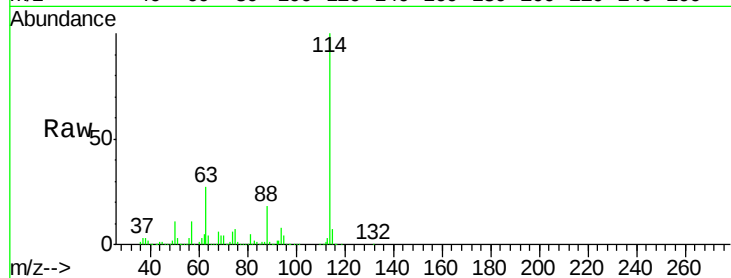




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

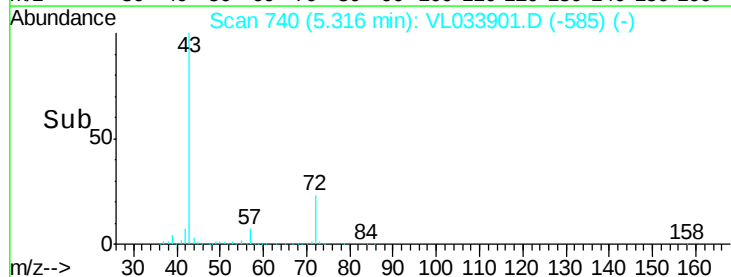
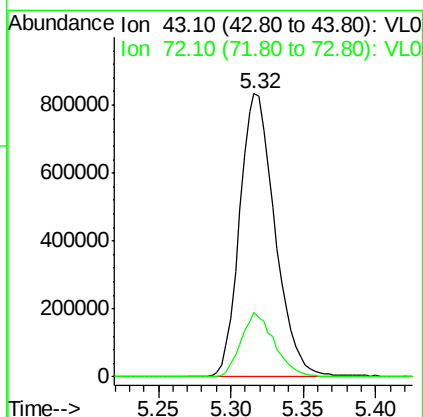
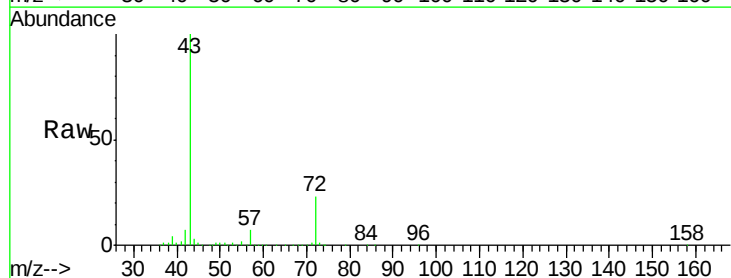
Instrument :
 MSVOA_L
 ClientSampleId :

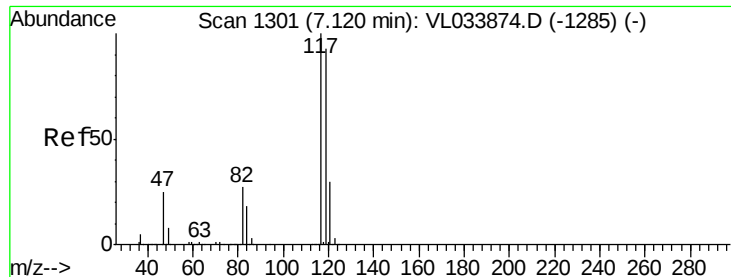
Tot Ion:114 Resp: 2294715
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.1 31.7
 88 17.8 14.2 21.4



#34
 2-Butanone
 Concen: 10.869 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 43 Resp: 1407017
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.9 26.9





#35

Carbon Tetrachloride

Concen: 11.098 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

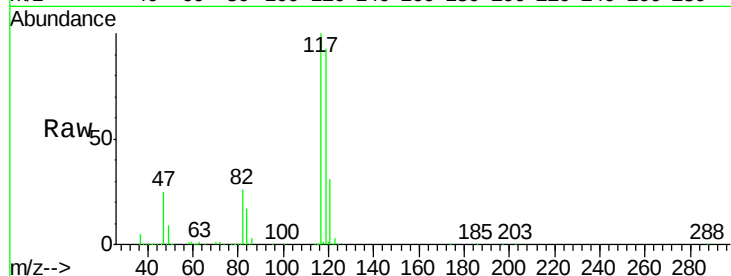
Instrument :

MSVOA_L

ClientSampled :

Tot Ion:117 Resp: 1967631

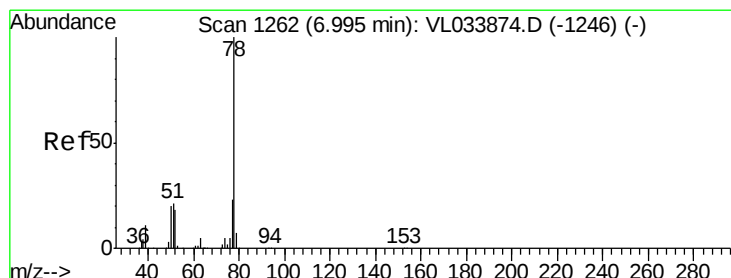
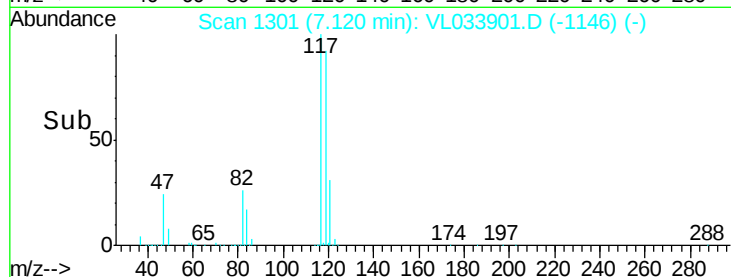
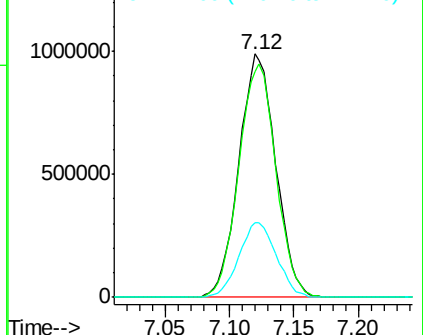
Ion	Ratio	Lower	Upper
117	100		
119	92.5	74.6	111.8
121	30.9	24.0	36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.283 ppbv

RT: 6.99 min Scan# 1262

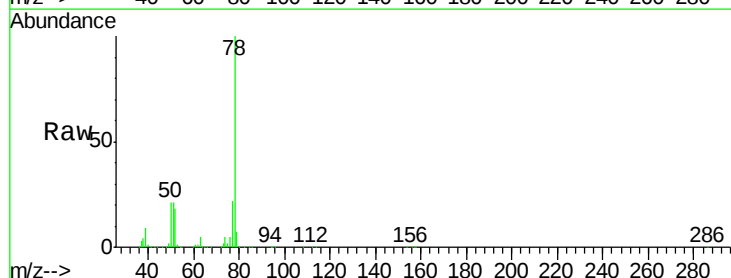
Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion: 78 Resp: 1977814

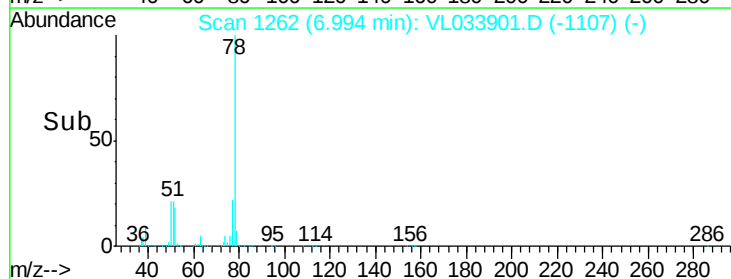
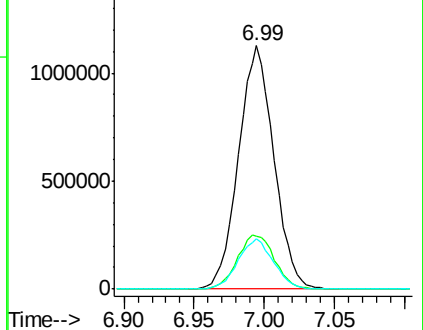
Ion	Ratio	Lower	Upper
78	100		
77	21.8	18.2	27.2
50	20.5	15.9	23.9

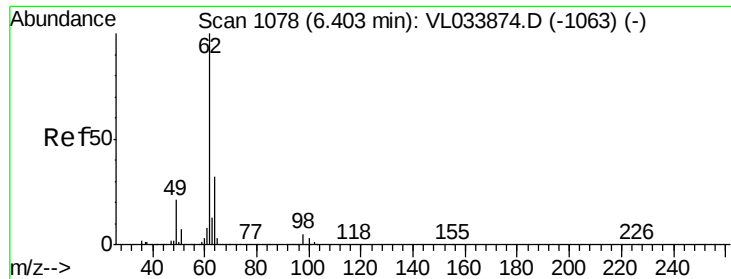


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

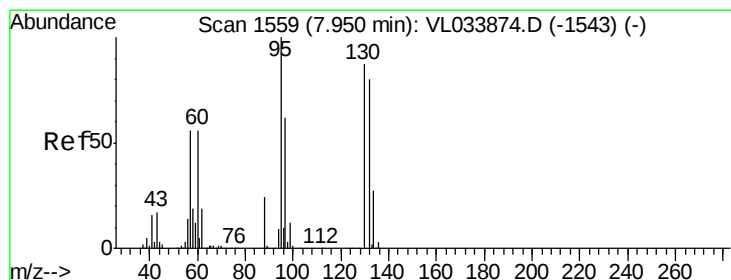
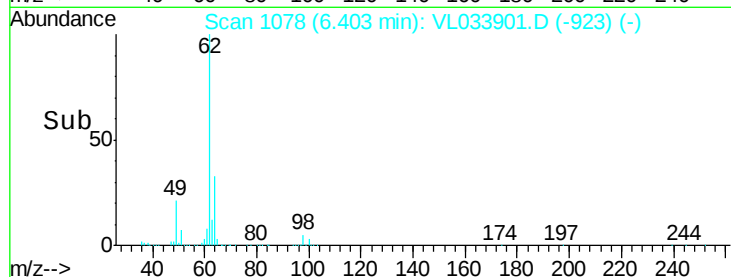
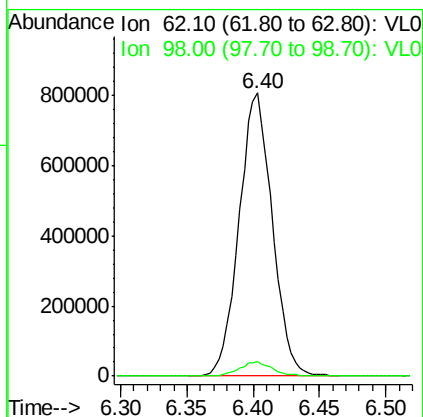
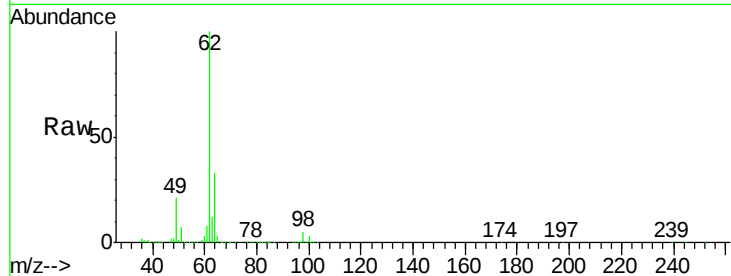




#37
 1,2-Dichloroethane
 Concen: 10.837 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

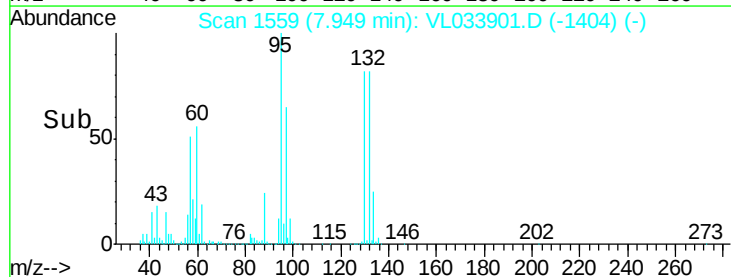
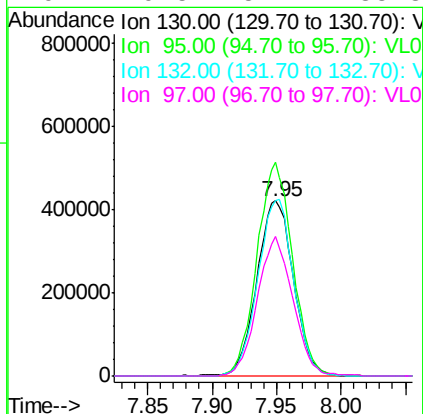
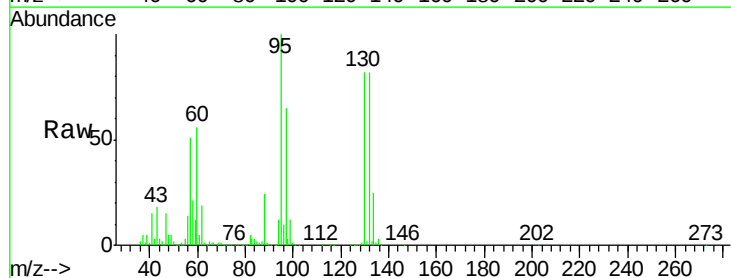
Instrument :
 MSVOA_L
 ClientSampleId :

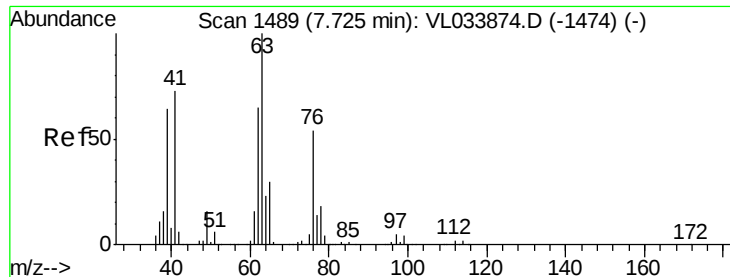
Tot Ion: 62 Resp: 1404935
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.0 6.0



#38
 Trichloroethene
 Concen: 12.130 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion:130 Resp: 827866
 Ion Ratio Lower Upper
 130 100
 95 122.2 92.0 138.0
 132 100.4 73.8 110.8
 97 79.5 57.2 85.8





#39

1,2-Dichloropropane

Concen: 11.173 ppbv

RT: 7.72 min Scan# 1489

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

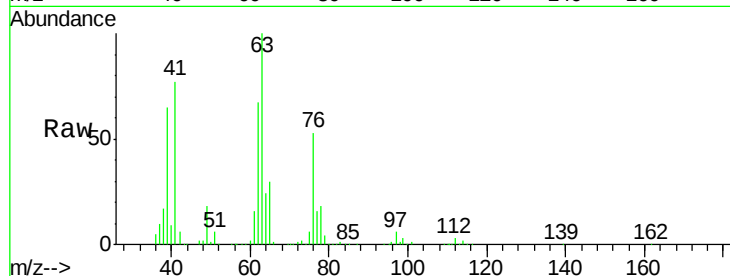
Tot Ion: 63 Resp: 755870

Ion Ratio Lower Upper

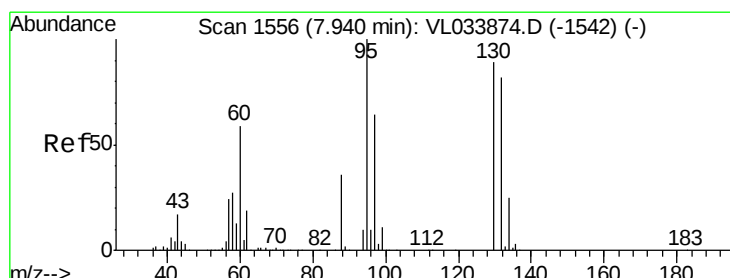
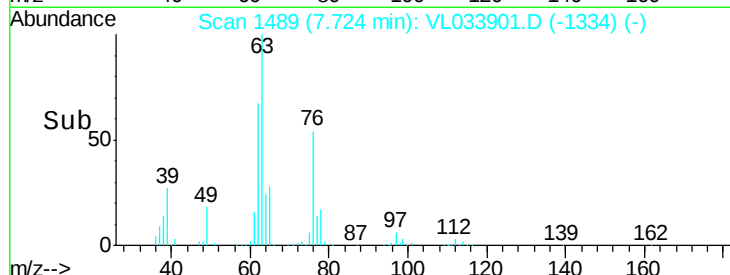
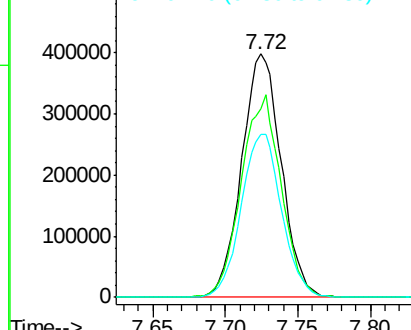
63 100

41 77.2 58.7 88.1

62 66.9 51.9 77.9



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 12.152 ppbv

RT: 7.94 min Scan# 1556

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion: 88 Resp: 335305

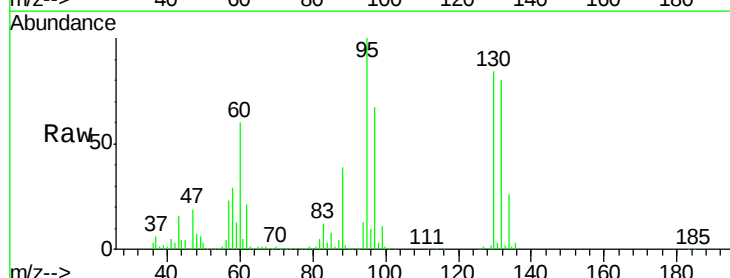
Ion Ratio Lower Upper

88 100

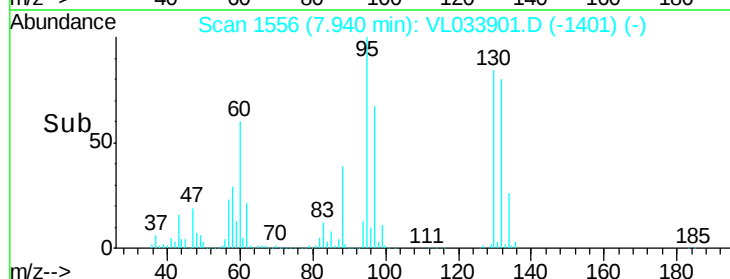
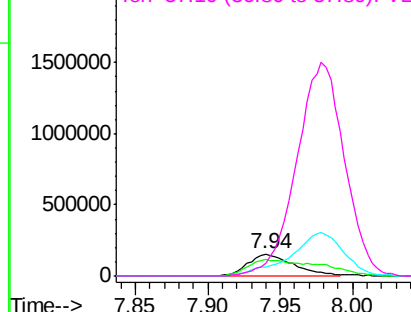
58 121.2 100.0 150.0

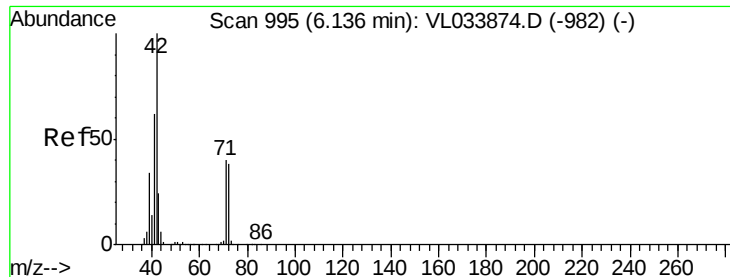
43 0.0 184.7 277.1#

57 0.0 826.8 1240.2#



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 12.242 ppbv

RT: 6.13 min Scan# 994

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

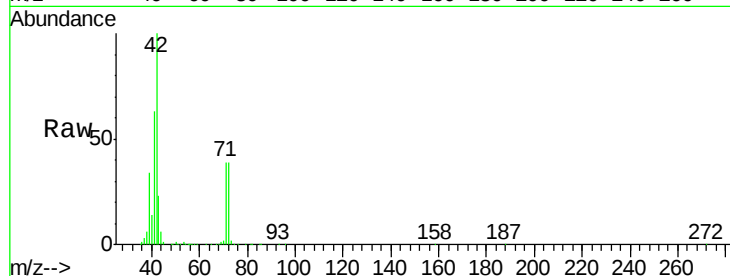
Tot Ion: 42 Resp: 804390

Ion Ratio Lower Upper

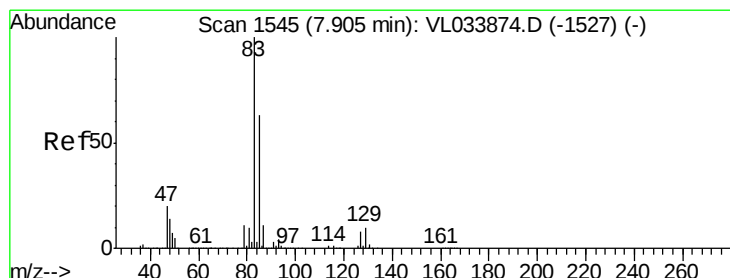
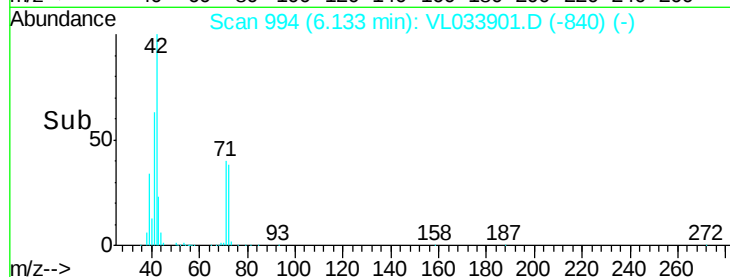
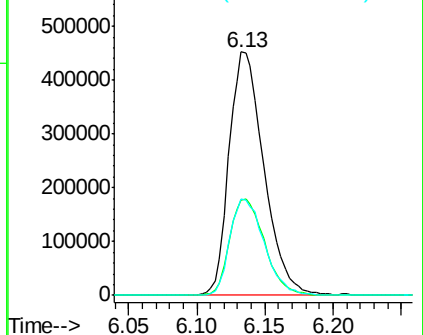
42 100

72 39.9 32.2 48.4

71 39.2 31.7 47.5



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.935 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

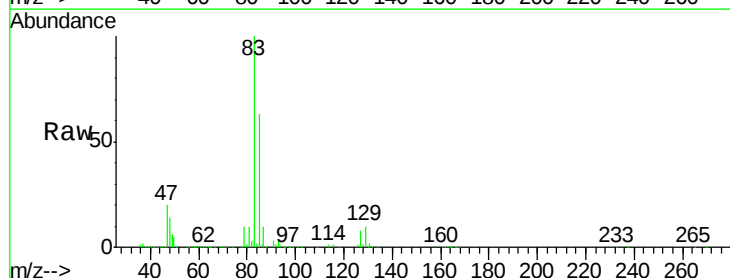
Tgt Ion: 83 Resp: 1894414

Ion Ratio Lower Upper

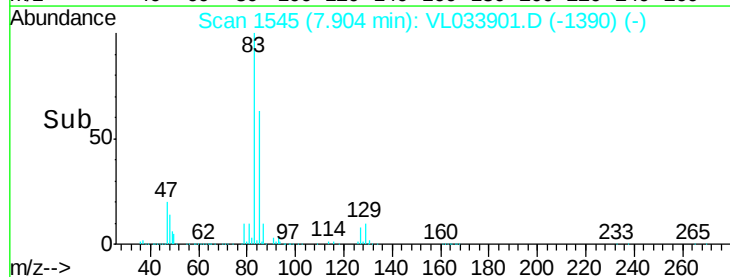
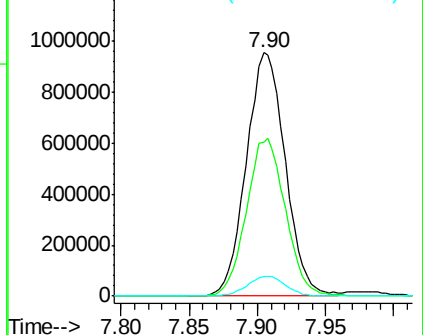
83 100

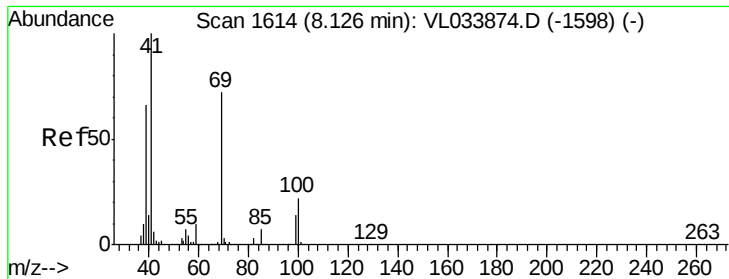
85 63.4 50.2 75.2

127 8.2 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 12.205 ppbv

RT: 8.12 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

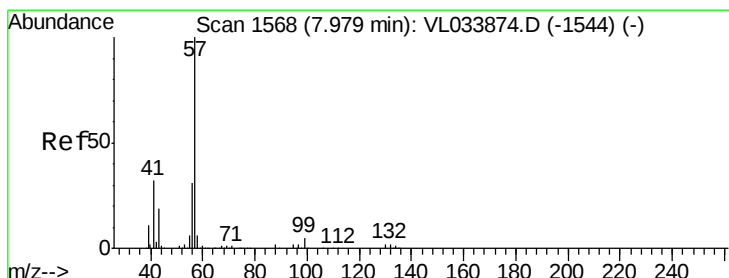
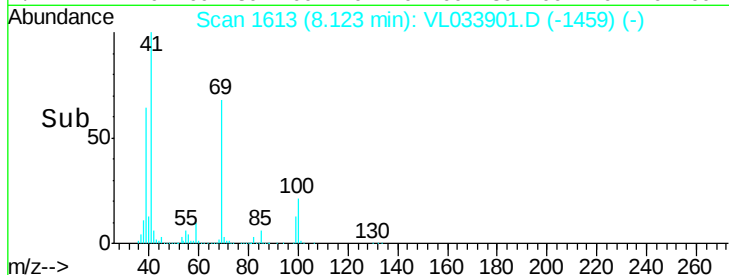
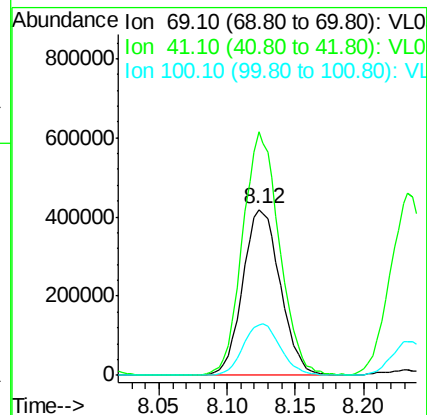
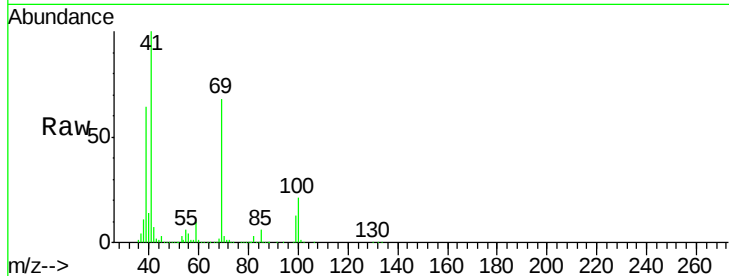
Tot Ion: 69 Resp: 800143

Ion Ratio Lower Upper

69 100

41 144.0 114.3 171.5

100 30.9 24.8 37.2



#44

2,2,4-Trimethylpentane

Concen: 11.051 ppbv

RT: 7.98 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

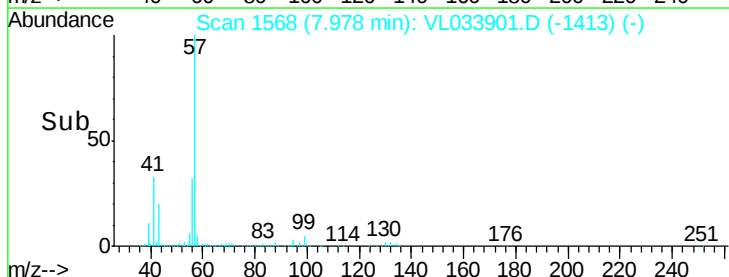
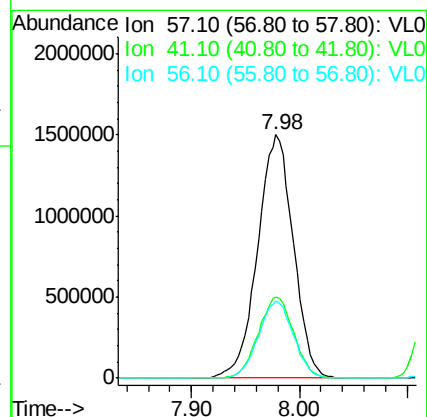
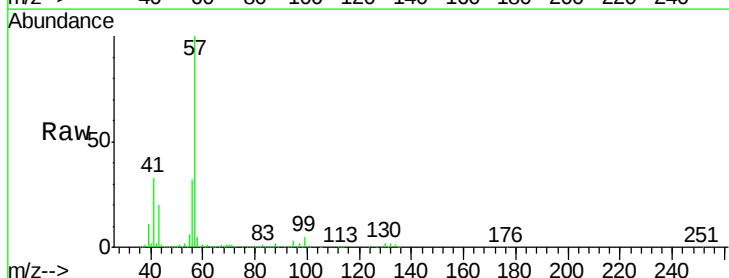
Tgt Ion: 57 Resp: 3444765

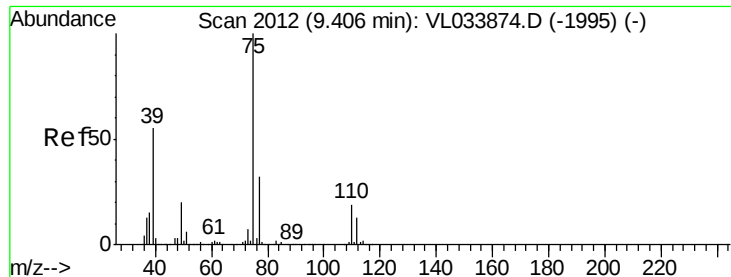
Ion Ratio Lower Upper

57 100

41 33.0 26.1 39.1

56 31.0 24.6 36.8





#45

t-1,3-Dichloropropene

Concen: 12.925 ppbv

RT: 9.40 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

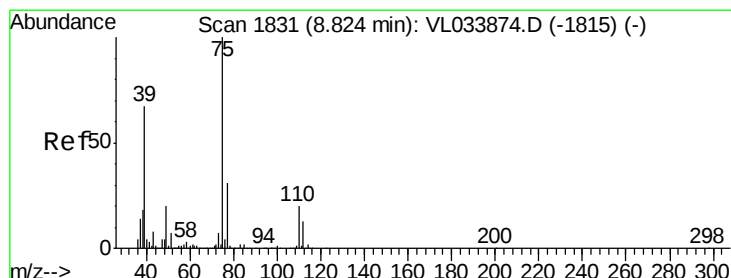
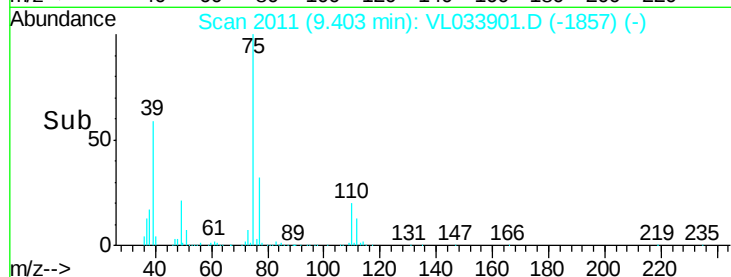
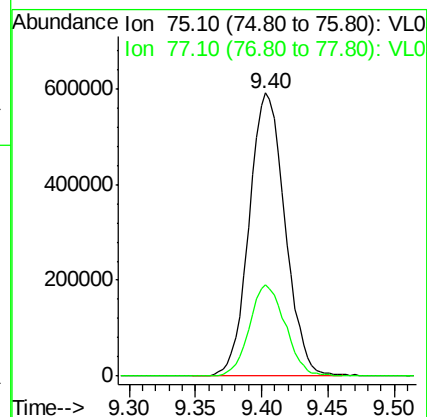
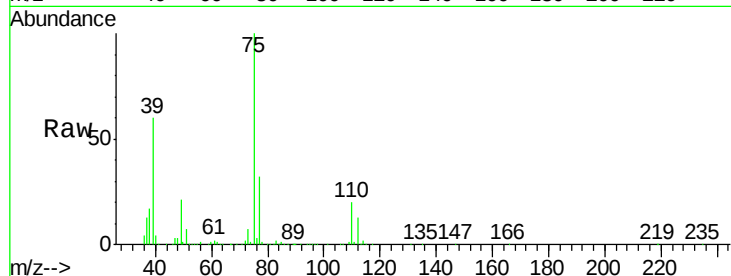
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 75 Resp: 1111812

Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 12.519 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

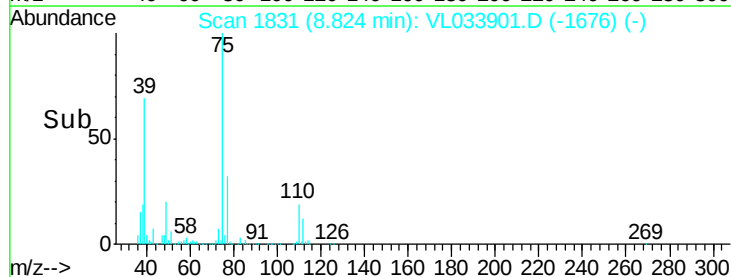
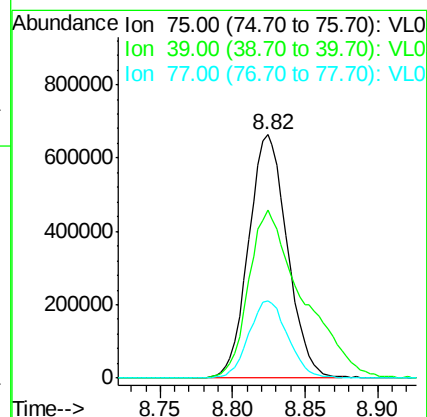
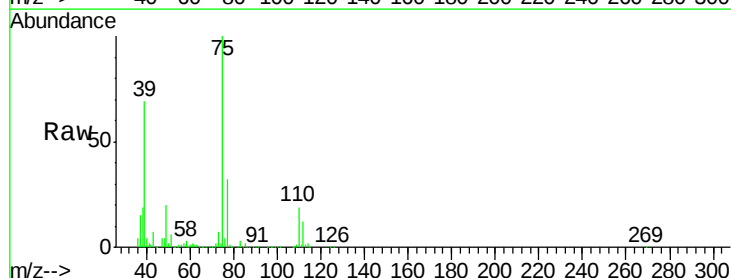
Tgt Ion: 75 Resp: 1233792

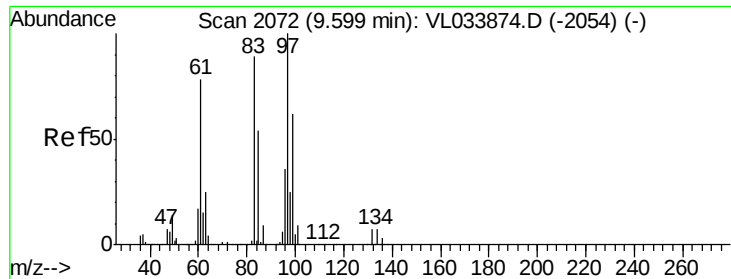
Ion Ratio Lower Upper

75 100

39 69.1 53.8 80.8

77 31.9 24.6 36.8

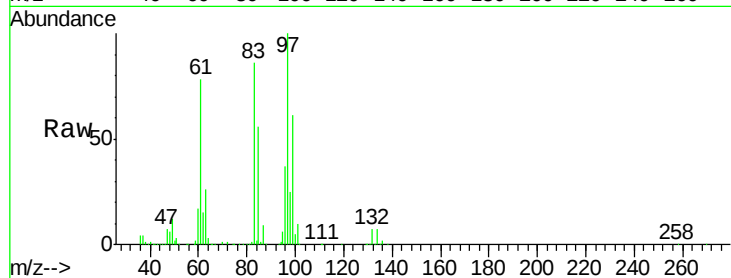




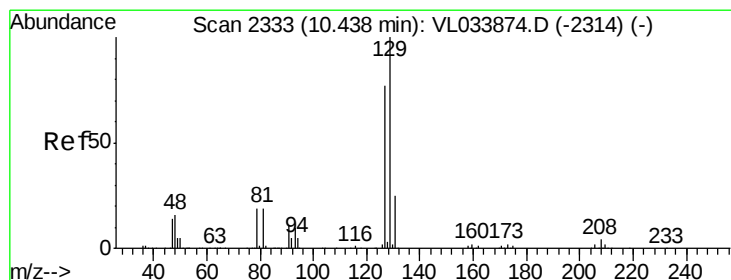
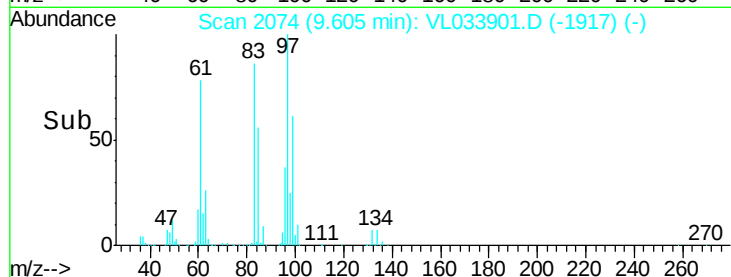
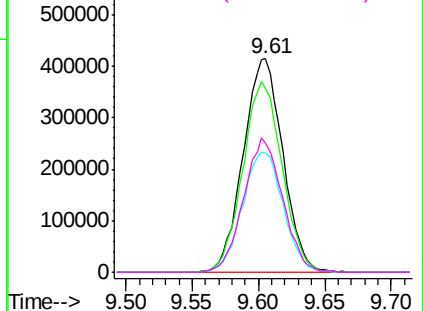
#47
 1,1,2-Trichloroethane
 Concen: 10.658 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. 0.01 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 97 Resp: 859539
 Ion Ratio Lower Upper
 97 100
 83 86.3 70.9 106.3
 85 55.4 43.0 64.6
 99 60.8 49.3 73.9

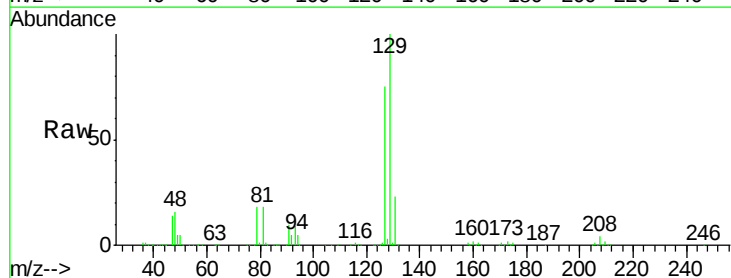


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

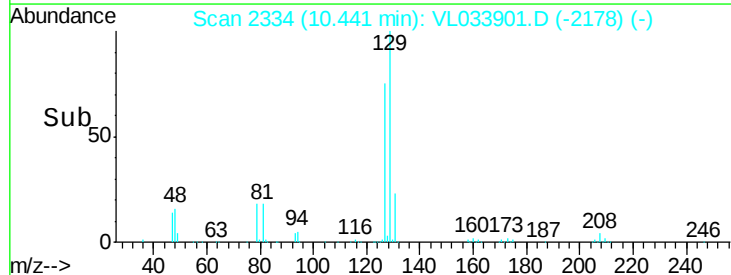
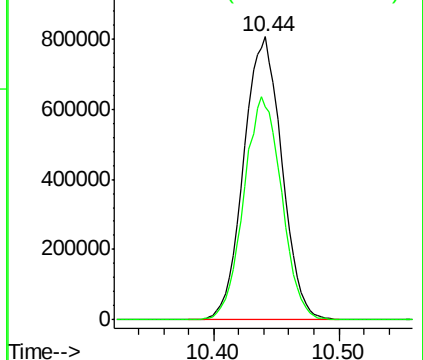


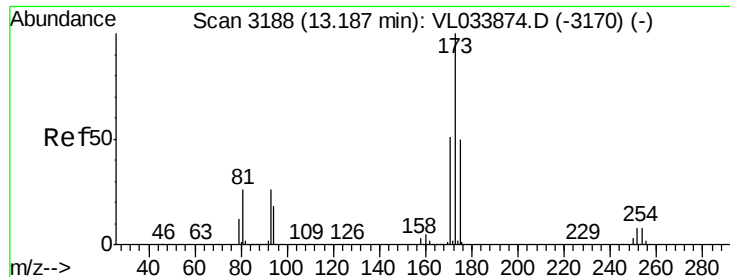
#48
 Dibromochloromethane
 Concen: 11.686 ppbv
 RT: 10.44 min Scan# 2334
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 129 Resp: 1693758
 Ion Ratio Lower Upper
 129 100
 127 78.2 38.6 115.7



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





#49

Bromoform

Concen: 11.913 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

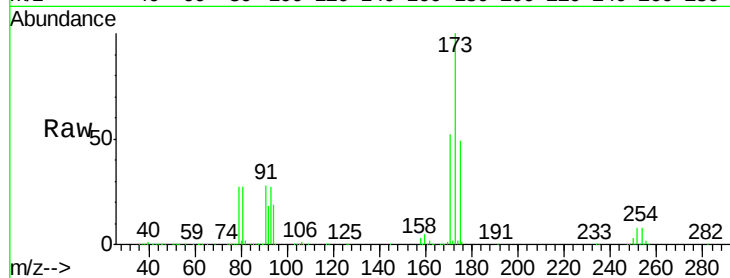
Tot Ion:173 Resp: 1524184

Ion Ratio Lower Upper

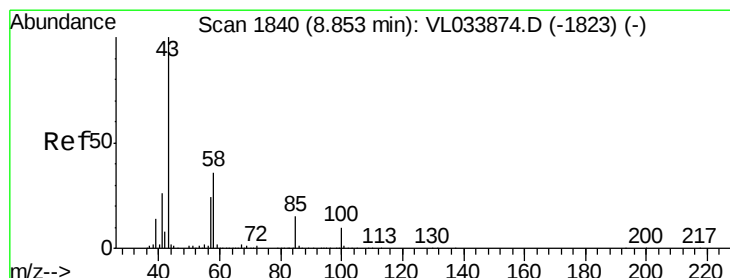
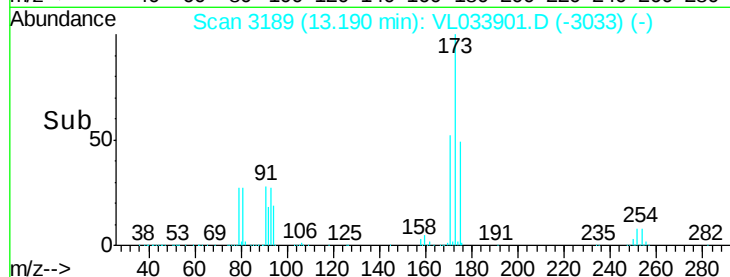
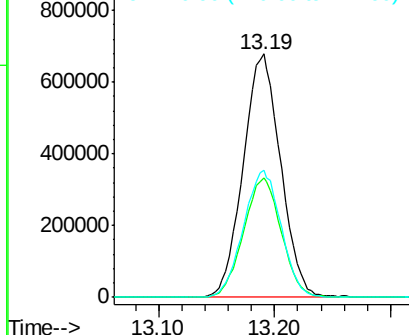
173 100

175 49.6 39.6 59.4

171 52.7 41.8 62.8



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.299 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL033901.D

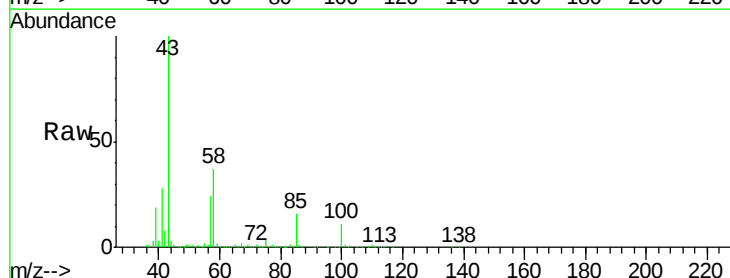
Acq: 13 Jun 2019 17:11

Tgt Ion: 43 Resp: 2181160

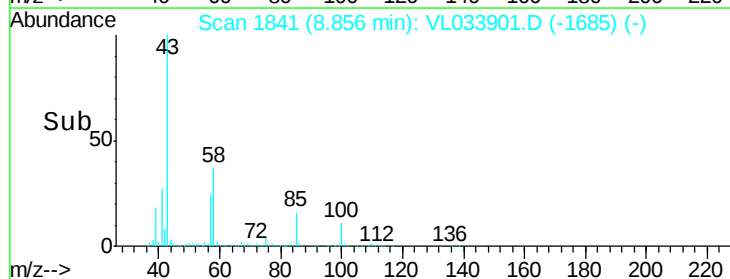
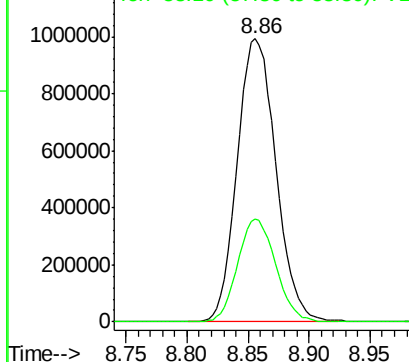
Ion Ratio Lower Upper

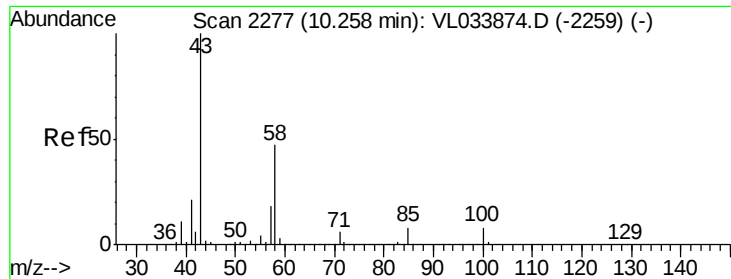
43 100

58 35.8 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

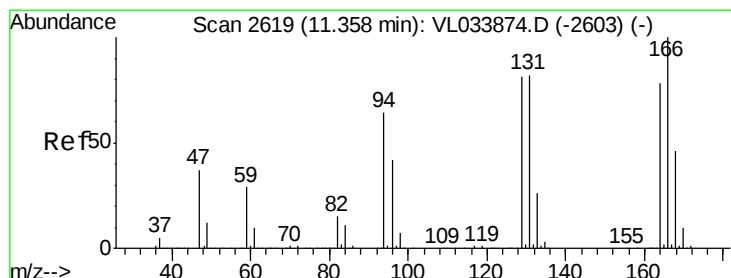
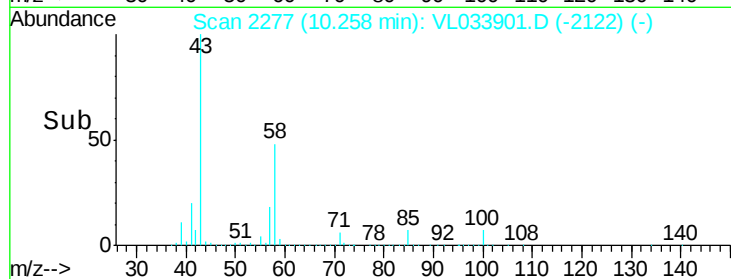
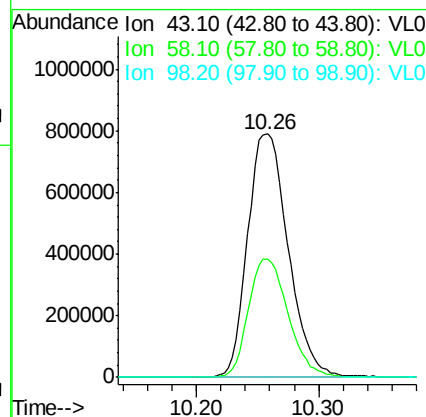
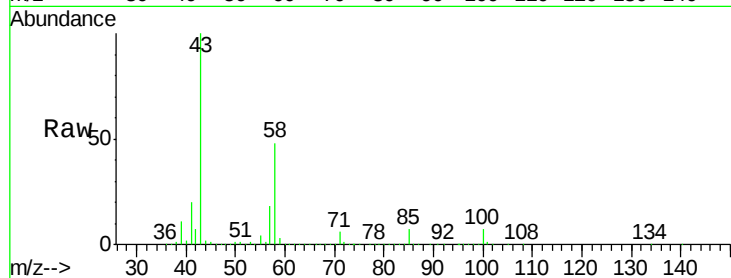




#51
2-Hexanone
Concen: 12.011 ppbv
RT: 10.26 min Scan# 2277
Delta R.T. -0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

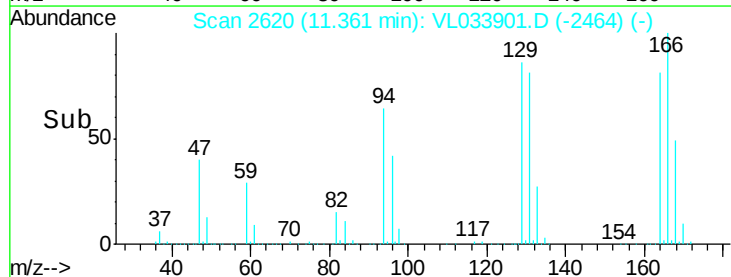
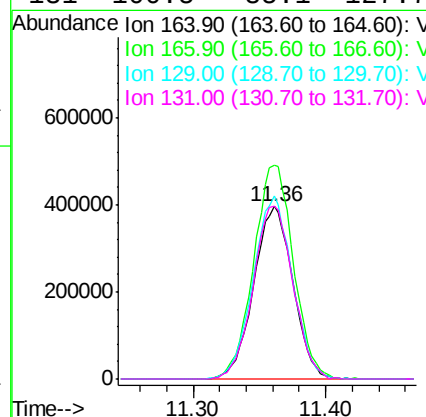
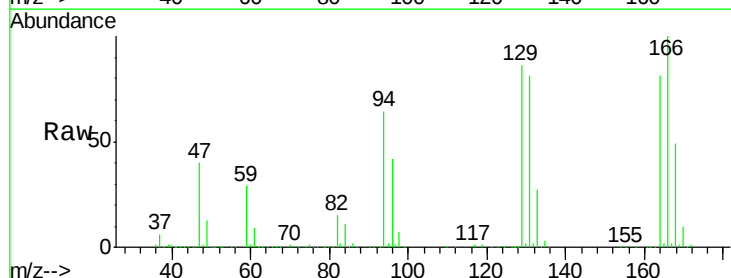
Instrument :
MSVOA_L
ClientSampled :

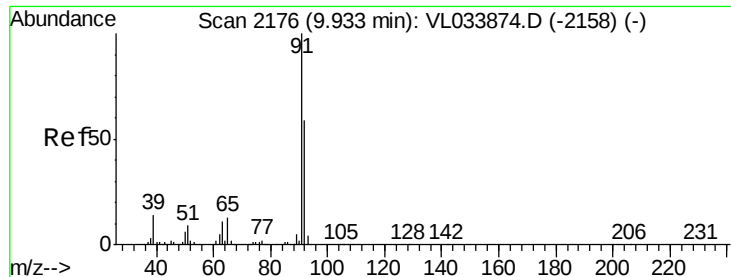
Tot Ion: 43 Resp: 1810522
Ion Ratio Lower Upper
43 100
58 47.5 38.2 57.4
98 0.5 0.2 0.2#



#52
Tetrachloroethene
Concen: 13.185 ppbv
RT: 11.36 min Scan# 2620
Delta R.T. 0.00 min
Lab File: VL033901.D
Acq: 13 Jun 2019 17:11

Tgt Ion:164 Resp: 813237
Ion Ratio Lower Upper
164 100
166 123.7 103.1 154.7
129 105.9 83.9 125.9
131 100.5 85.1 127.7





#53

Toluene

Concen: 12.134 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

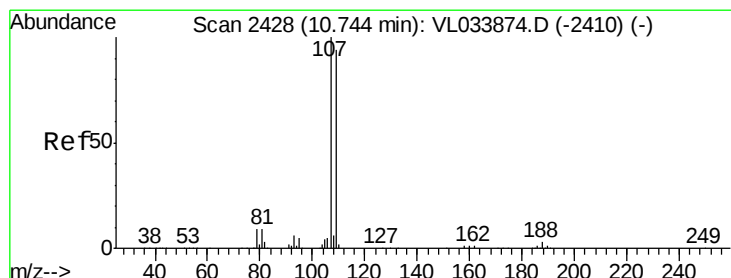
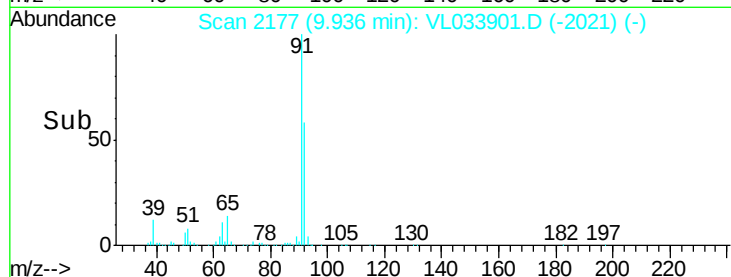
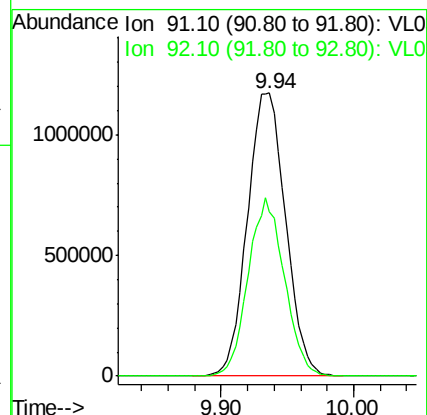
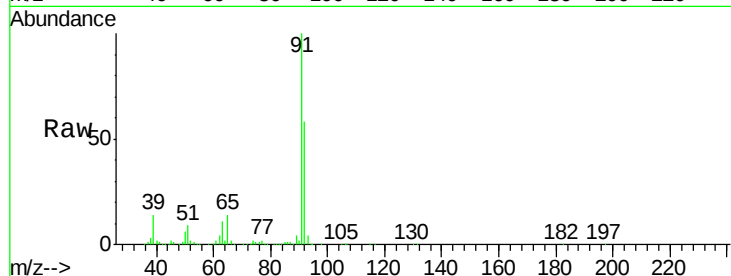
ClientSampleId :

Tot Ion: 91 Resp: 2353824

Ion Ratio Lower Upper

91 100

92 59.7 47.0 70.6



#54

1,2-Dibromoethane

Concen: 11.201 ppbv

RT: 10.75 min Scan# 2430

Delta R.T. 0.01 min

Lab File: VL033901.D

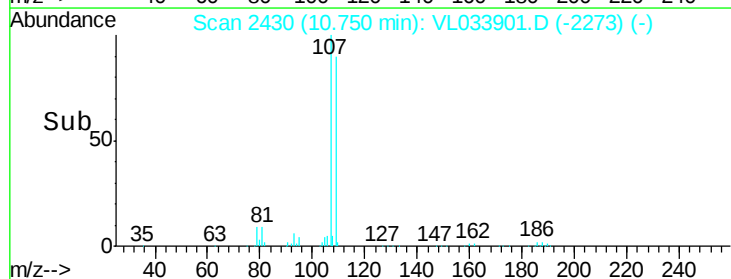
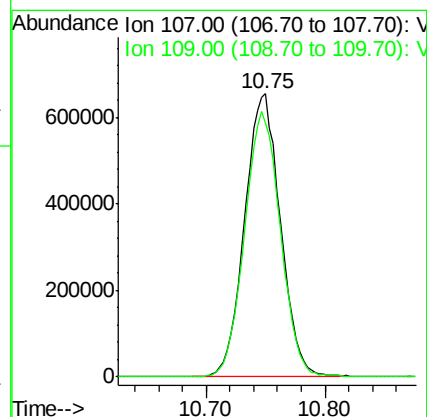
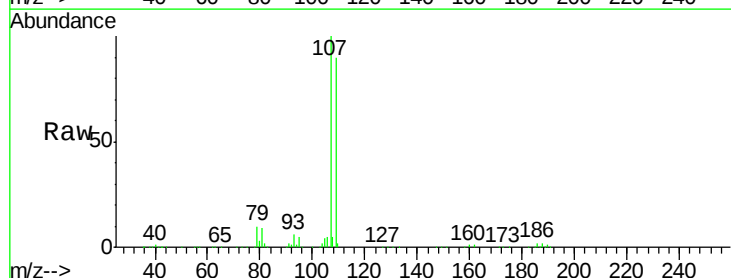
Acq: 13 Jun 2019 17:11

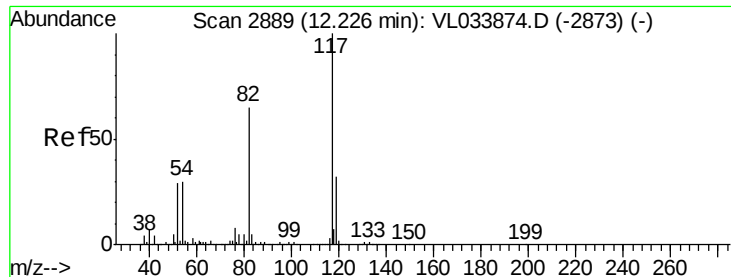
Tgt Ion:107 Resp: 1361721

Ion Ratio Lower Upper

107 100

109 89.8 74.9 112.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

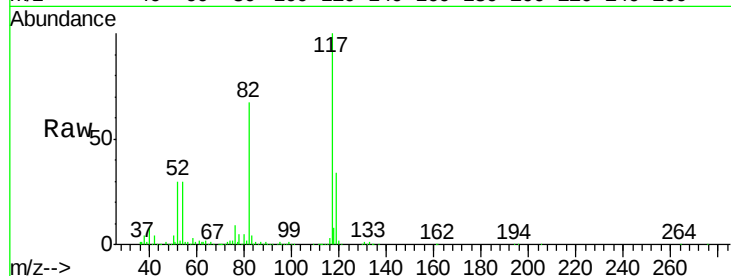
Tot Ion:117 Resp: 2962419

Ion Ratio Lower Upper

117 100

82 53.5 50.2 75.2

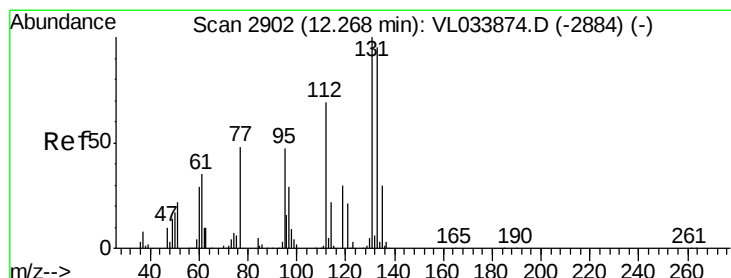
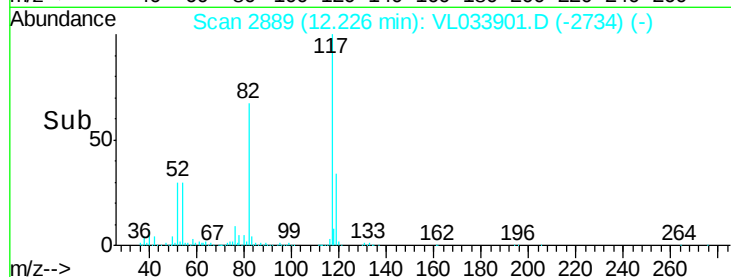
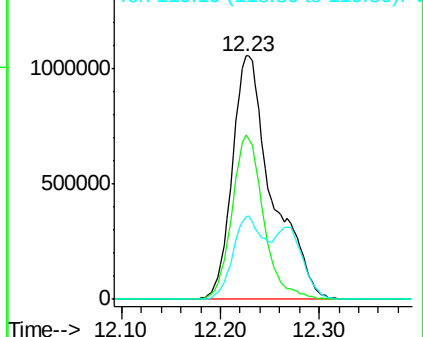
119 29.2 24.8 37.2



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.700 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

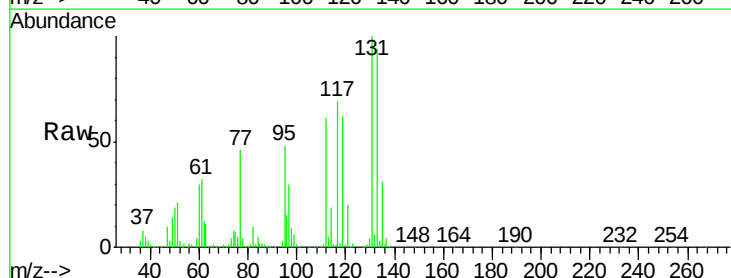
Tgt Ion:131 Resp: 1125886

Ion Ratio Lower Upper

131 100

133 95.0 76.5 114.7

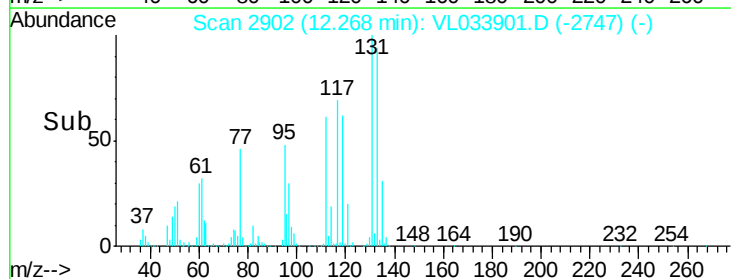
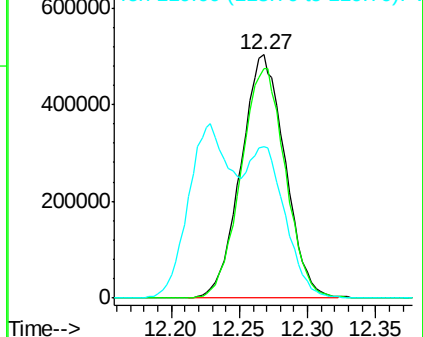
119 57.9 42.6 64.0

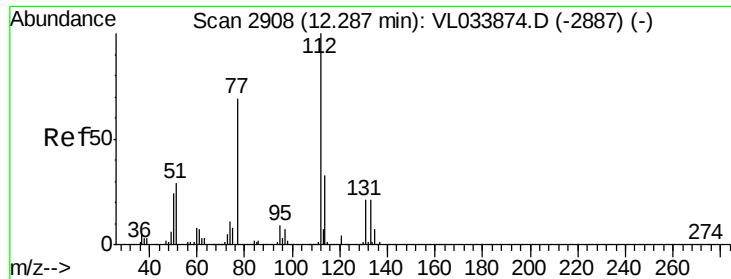


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.456 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

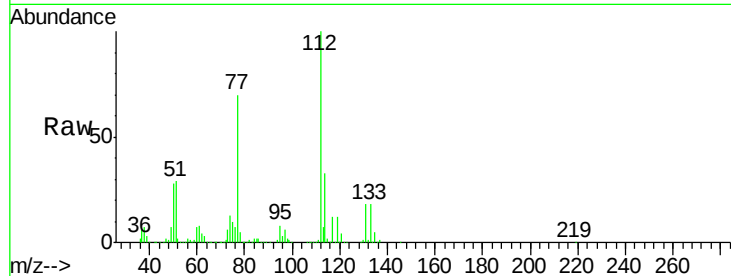
Tot Ion:112 Resp: 1876278

Ion Ratio Lower Upper

112 100

77 69.7 55.8 83.6

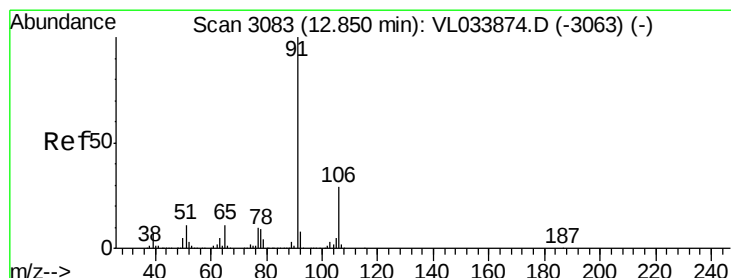
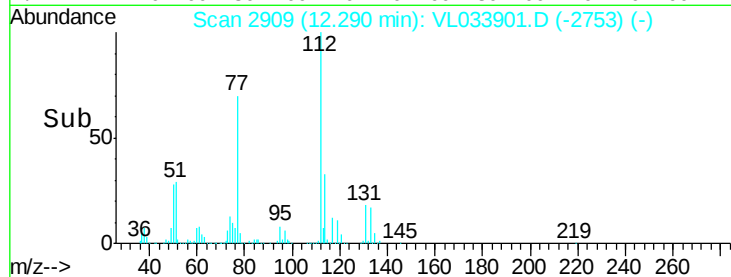
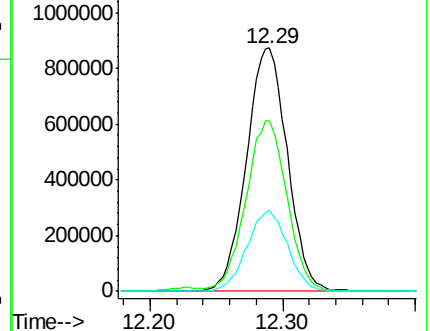
114 33.2 29.8 36.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.996 ppbv

RT: 12.85 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL033901.D

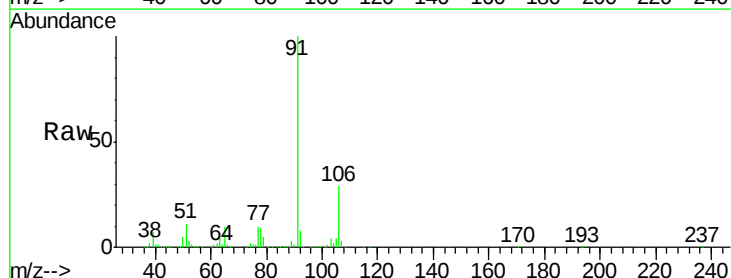
Acq: 13 Jun 2019 17:11

Tgt Ion: 91 Resp: 3338750

Ion Ratio Lower Upper

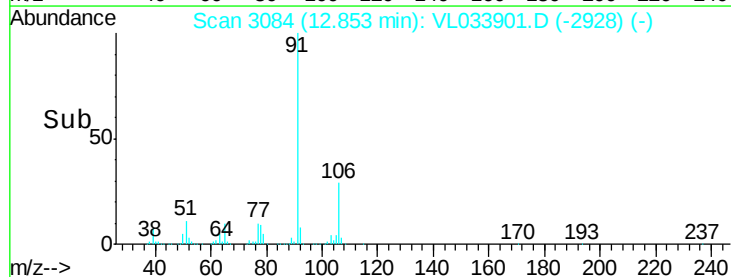
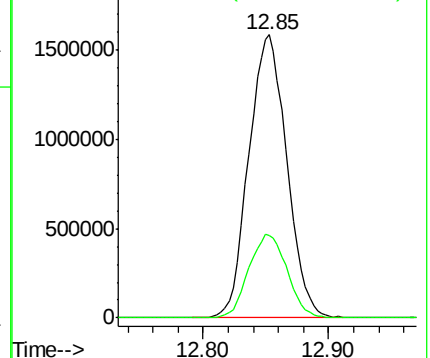
91 100

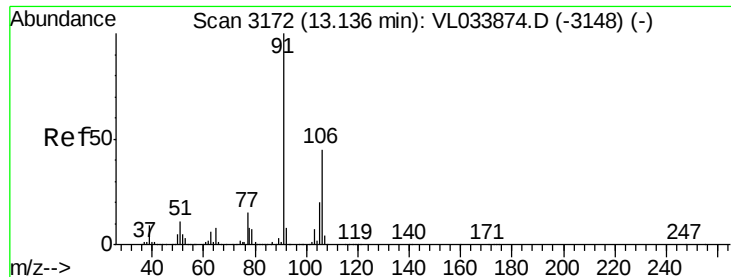
106 29.2 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 9.584 ppbv

RT: 13.13 min Scan# 3171

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

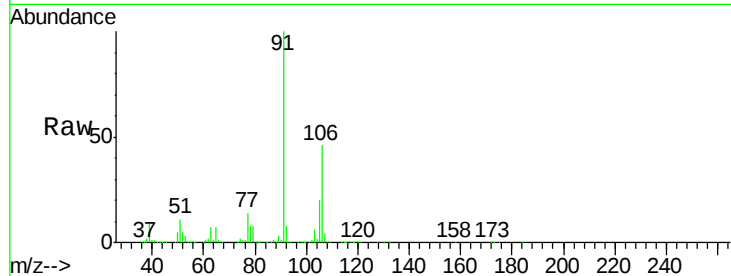
ClientSampleId :

Tot Ion: 91 Resp: 2910777

Ion Ratio Lower Upper

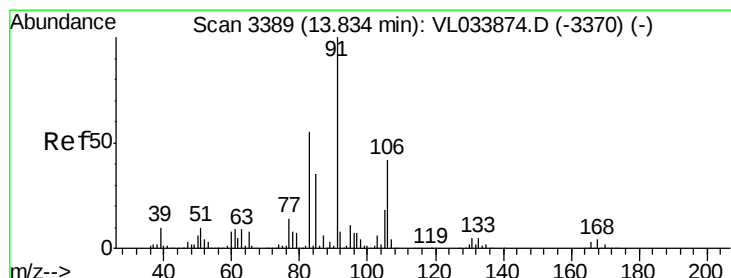
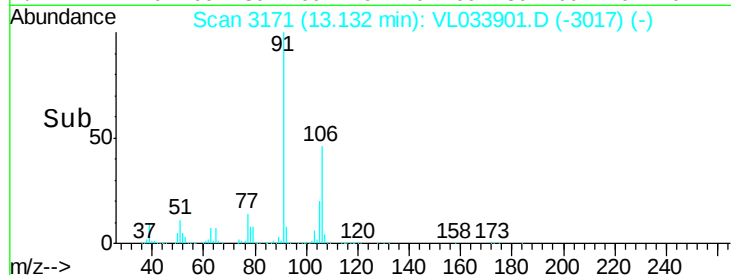
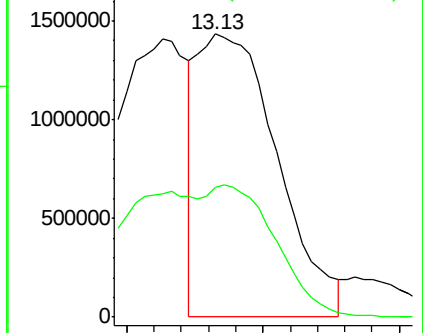
91 100

106 87.8 35.8 53.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.304 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL033901.D

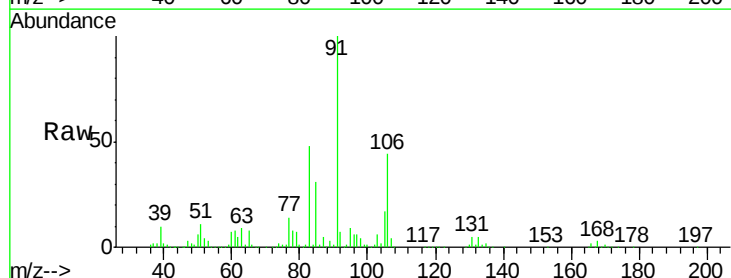
Acq: 13 Jun 2019 17:11

Tgt Ion: 91 Resp: 2917509

Ion Ratio Lower Upper

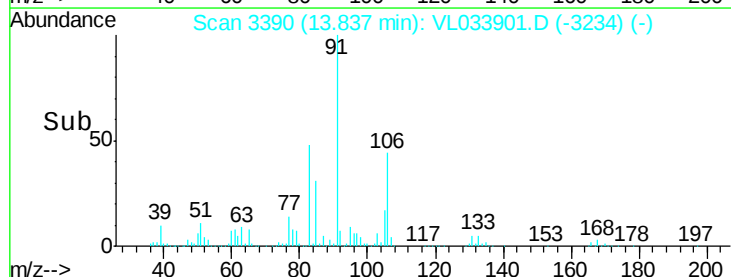
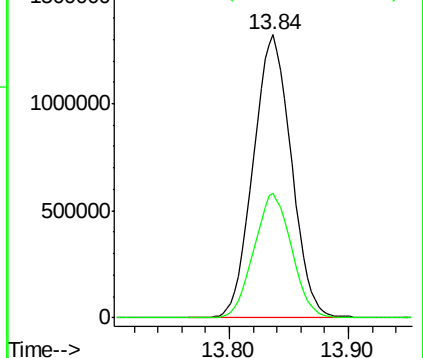
91 100

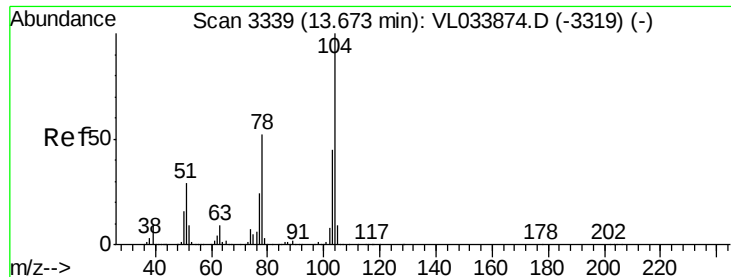
106 43.6 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 10.341 ppbv

RT: 13.67 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

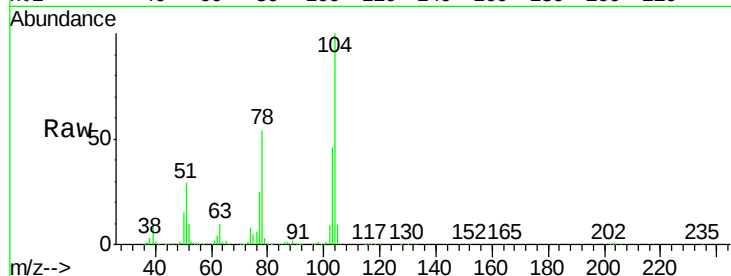
Tot Ion:104 Resp: 2098633

Ion Ratio Lower Upper

104 100

78 54.5 43.4 65.0

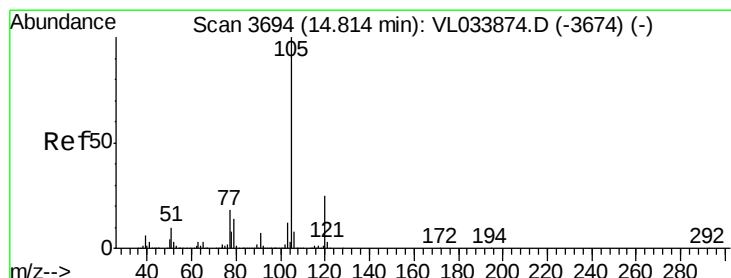
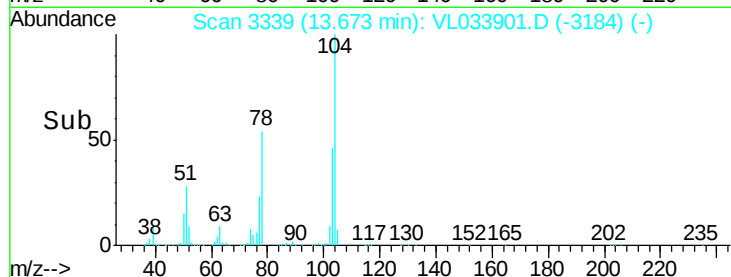
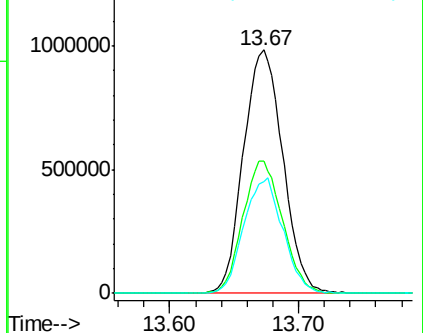
103 47.2 37.6 56.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.176 ppbv

RT: 14.81 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VL033901.D

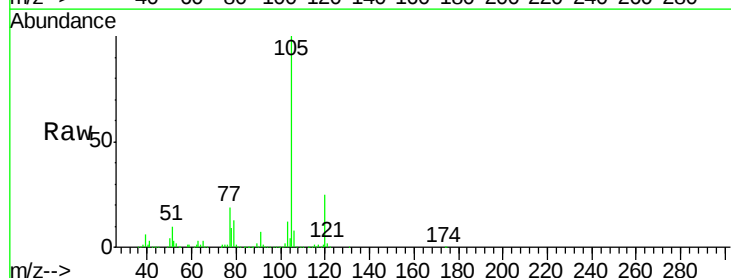
Acq: 13 Jun 2019 17:11

Tgt Ion:105 Resp: 3878453

Ion Ratio Lower Upper

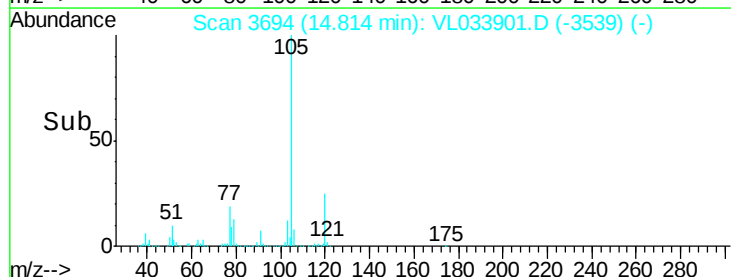
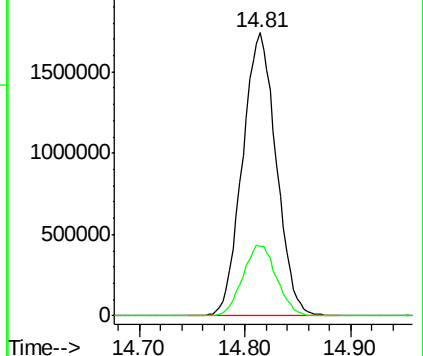
105 100

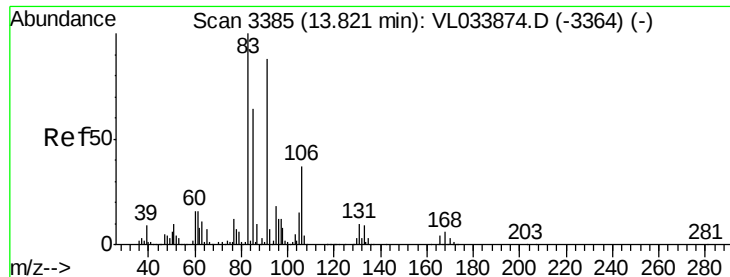
120 25.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.790 ppbv

RT: 13.82 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

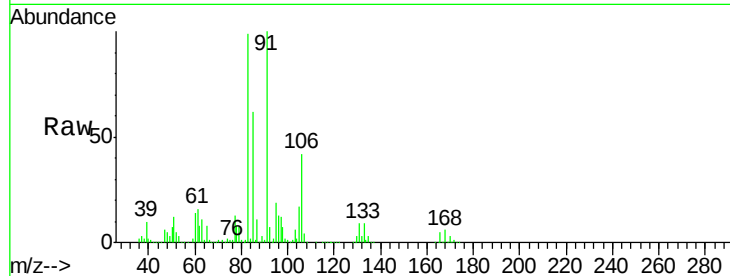
Tot Ion: 83 Resp: 2074872

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.4

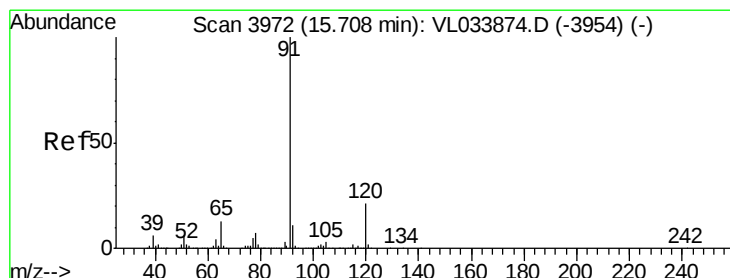
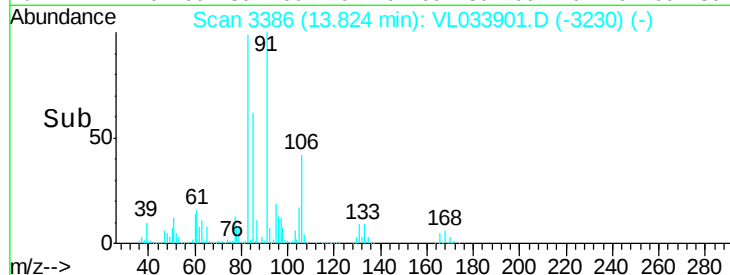
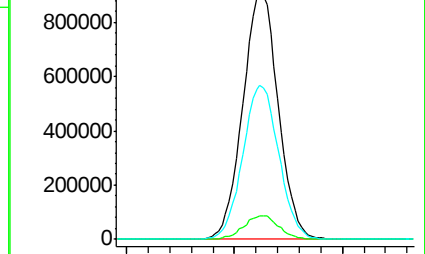
85 63.7 32.1 96.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.468 ppbv

RT: 15.71 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL033901.D

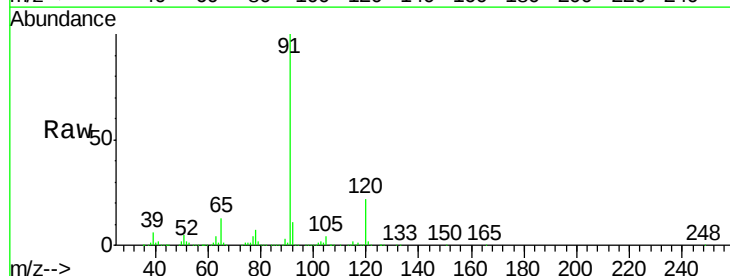
Acq: 13 Jun 2019 17:11

Tgt Ion:120 Resp: 1024764

Ion Ratio Lower Upper

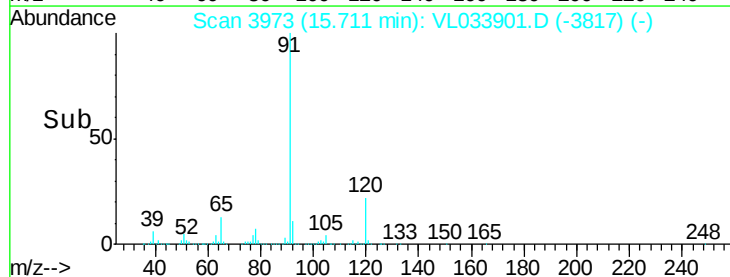
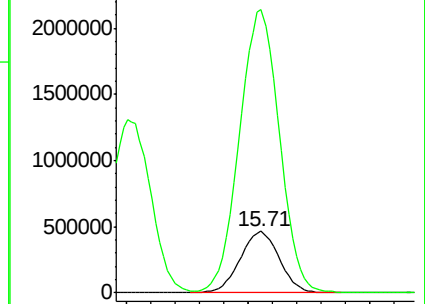
120 100

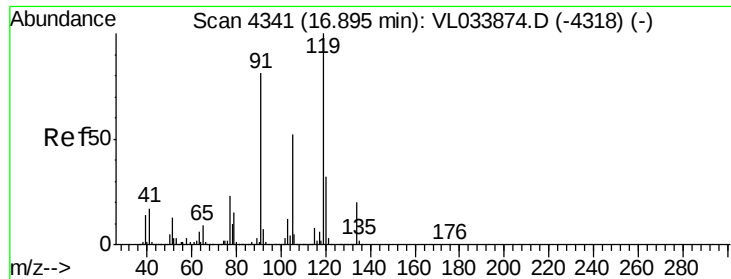
91 474.2 387.0 580.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.423 ppbv

RT: 16.90 min Scan# 4342

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

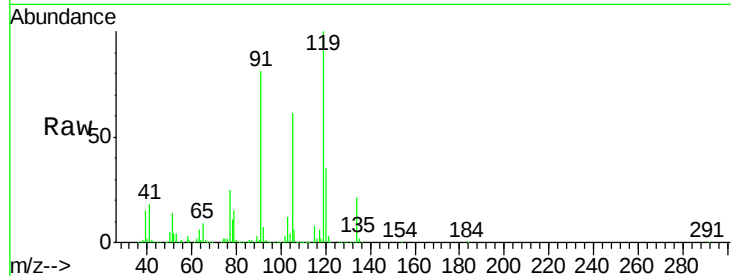
Tot Ion:119 Resp: 3685020

Ion Ratio Lower Upper

119 100

91 83.8 66.6 100.0

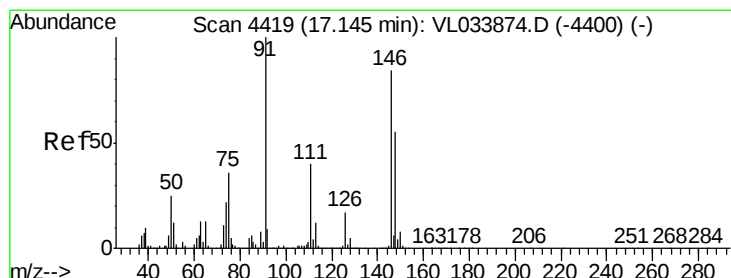
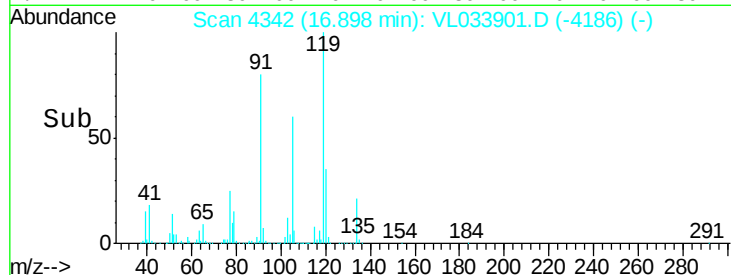
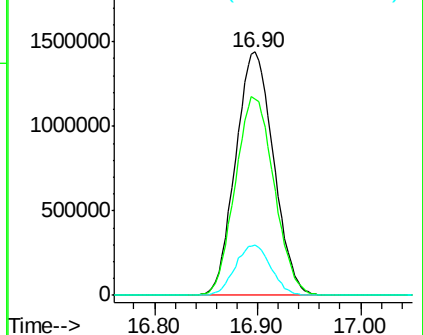
134 19.5 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.074 ppbv

RT: 17.15 min Scan# 4419

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

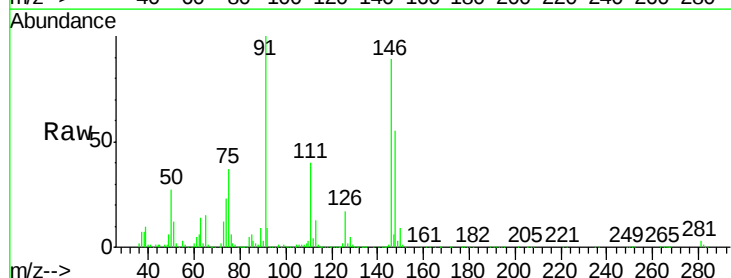
Tgt Ion: 91 Resp: 1996594

Ion Ratio Lower Upper

91 100

126 17.1 13.8 20.6

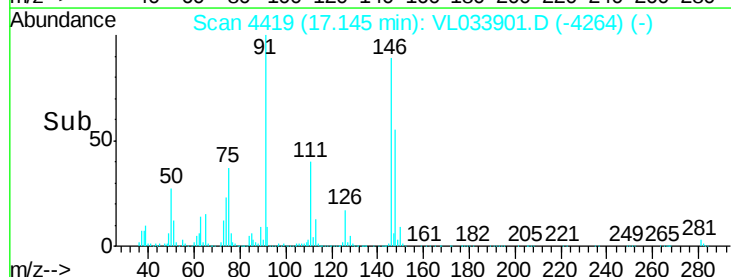
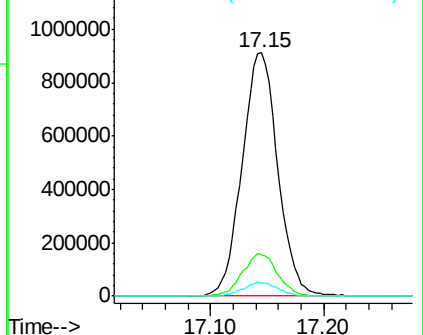
128 5.5 4.4 6.6

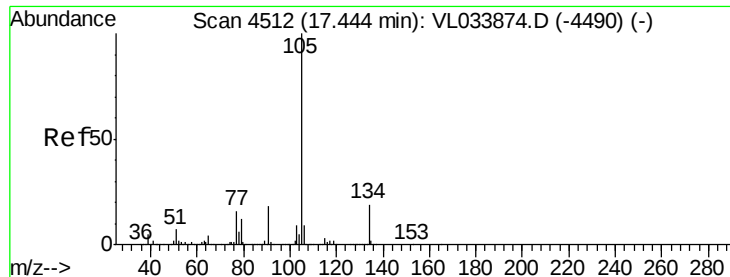


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.403 ppbv

RT: 17.45 min Scan# 4513

Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

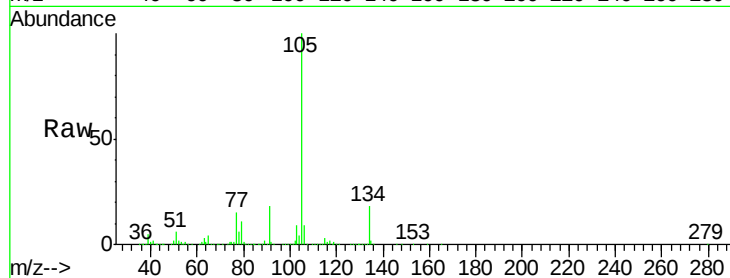
ClientSampleId :

Tot Ion:105 Resp: 5158832

Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

1000000

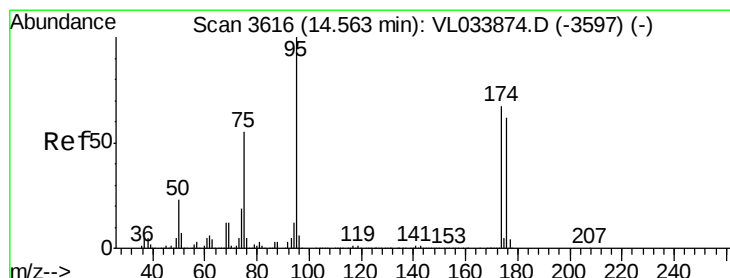
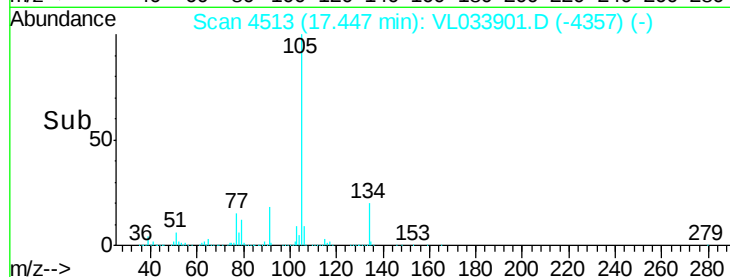
500000

0

17.45

17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 8.106 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

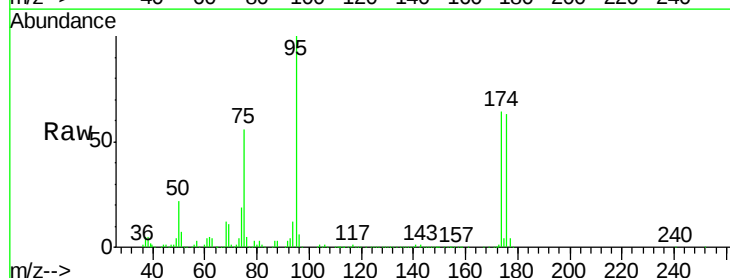
Tgt Ion: 95 Resp: 1972500

Ion Ratio Lower Upper

95 100

174 67.0 54.0 81.0

175 4.8 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

600000

400000

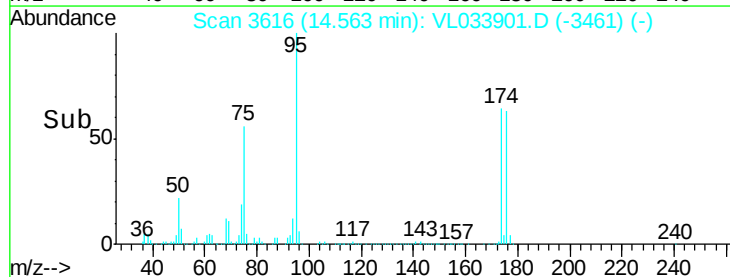
200000

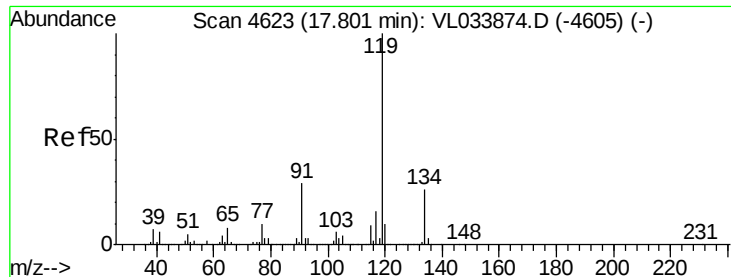
0

14.56

14.50 14.60

Time-->

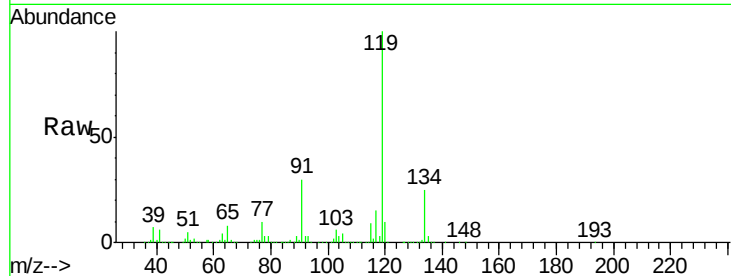




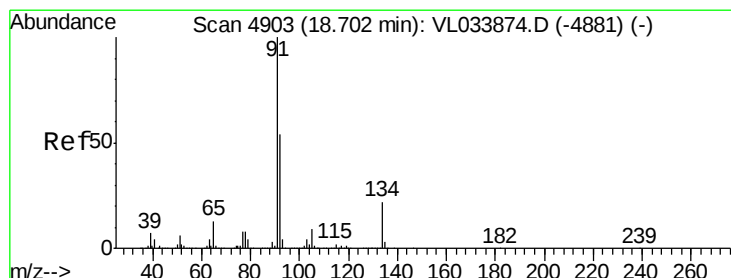
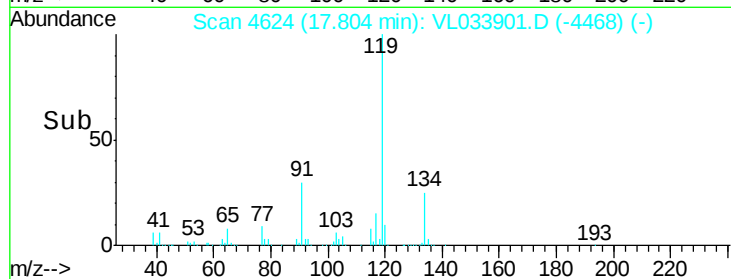
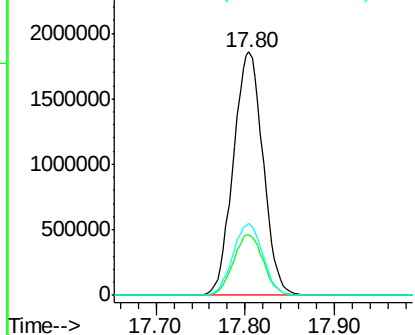
#69
 p-Isopropyltoluene
 Concen: 9.374 ppbv
 RT: 17.80 min Scan# 4624
 Delta R.T. 0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:119 Resp: 4279168
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.3 30.5
 91 29.8 23.8 35.6

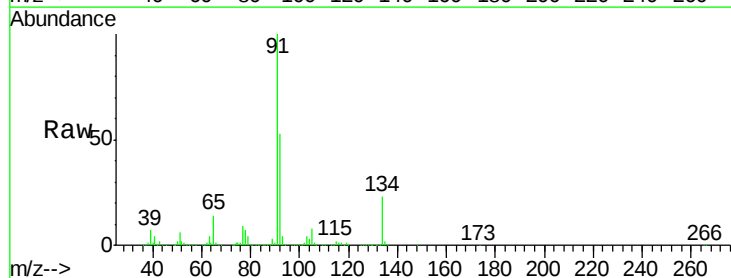


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

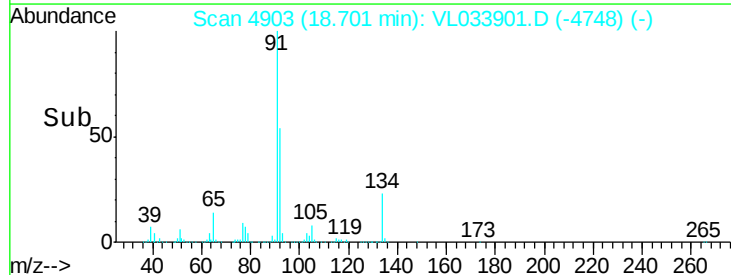
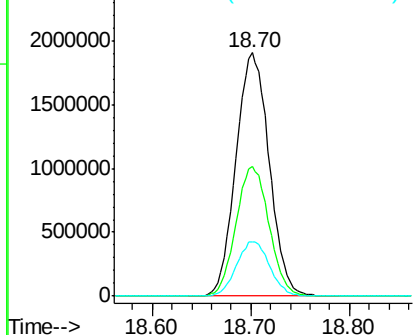


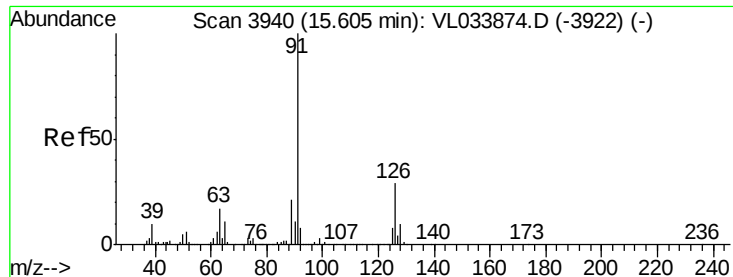
#70
 n-Butylbenzene
 Concen: 8.891 ppbv
 RT: 18.70 min Scan# 4903
 Delta R.T. -0.00 min
 Lab File: VL033901.D
 Acq: 13 Jun 2019 17:11

Tgt Ion: 91 Resp: 4445252
 Ion Ratio Lower Upper
 91 100
 92 53.0 42.5 63.7
 134 22.4 17.8 26.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.520 ppbv

RT: 15.60 min Scan# 3939

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

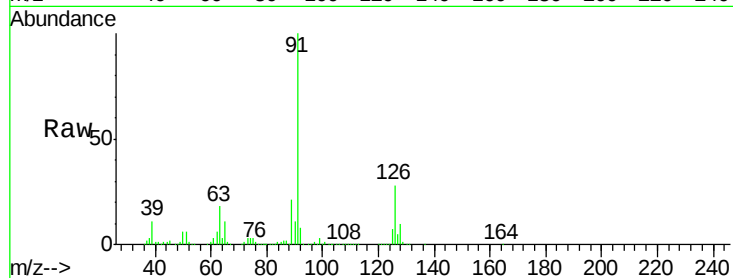
ClientSampleId :

Tot Ion: 91 Resp: 2964303

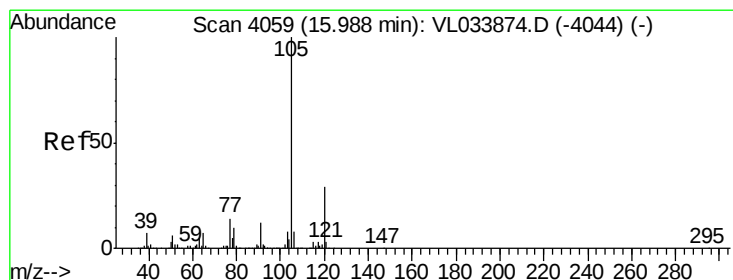
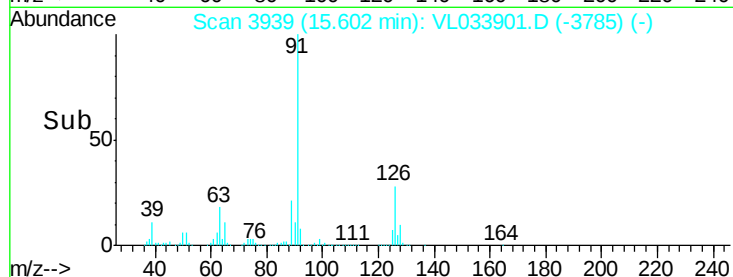
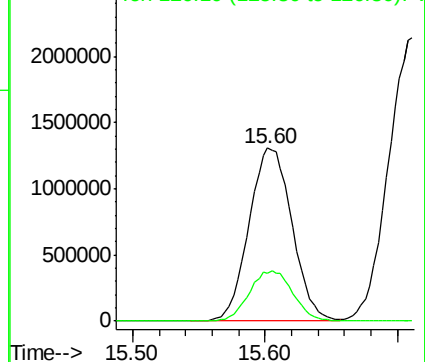
Ion Ratio Lower Upper

91 100

126 29.4 12.0 48.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.681 ppbv

RT: 15.99 min Scan# 4059

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:105 Resp: 3454652

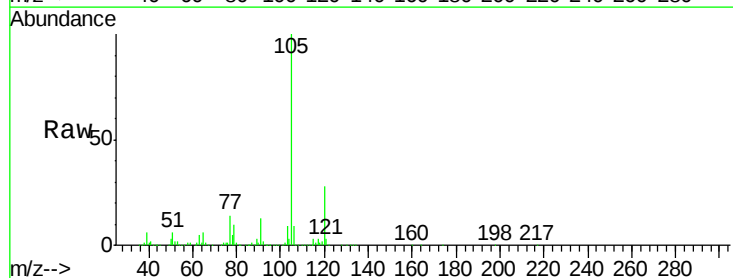
Ion Ratio Lower Upper

105 100

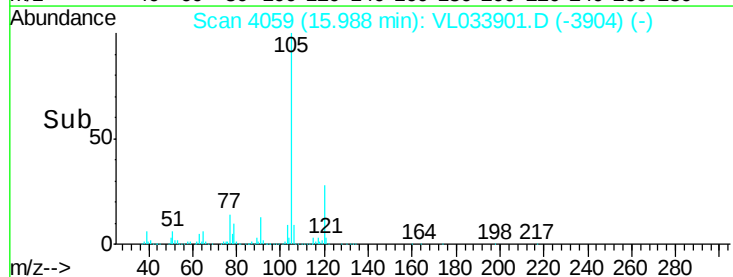
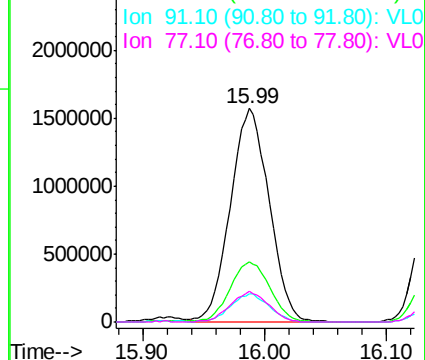
120 29.7 23.5 35.3

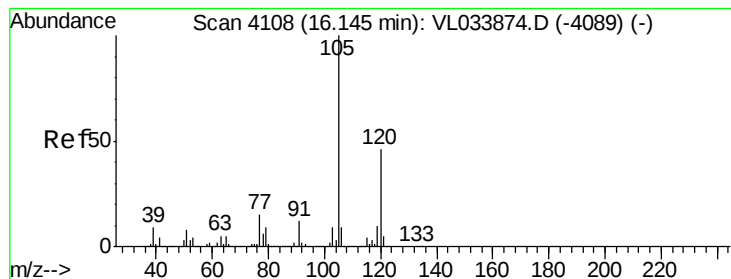
91 13.2 10.4 15.6

77 14.2 11.7 17.5



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.437 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

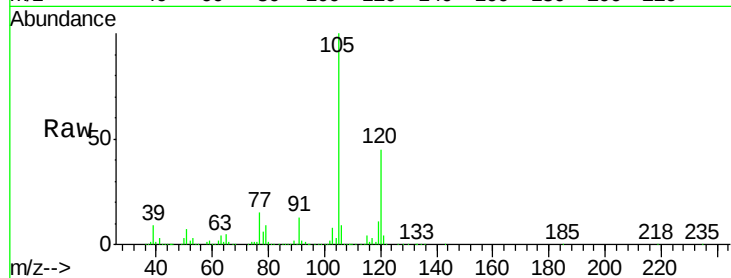
ClientSampleId :

Tot Ion:105 Resp: 3317343

Ion Ratio Lower Upper

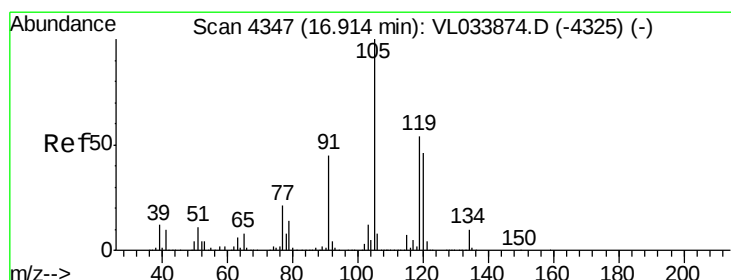
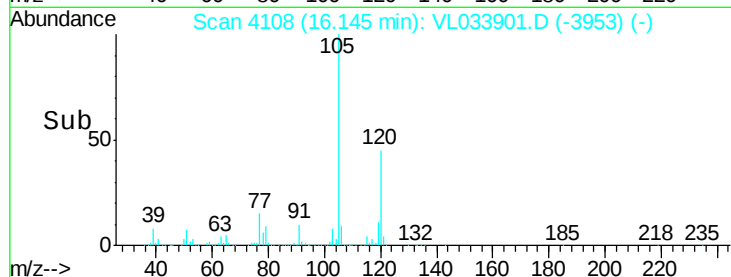
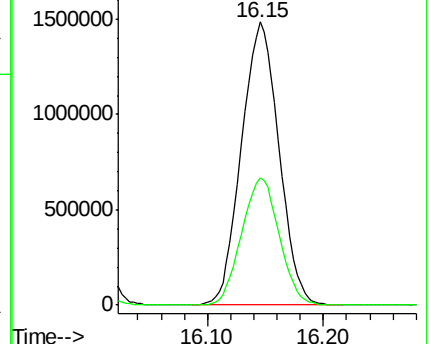
105 100

120 45.1 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.796 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:105 Resp: 3563807

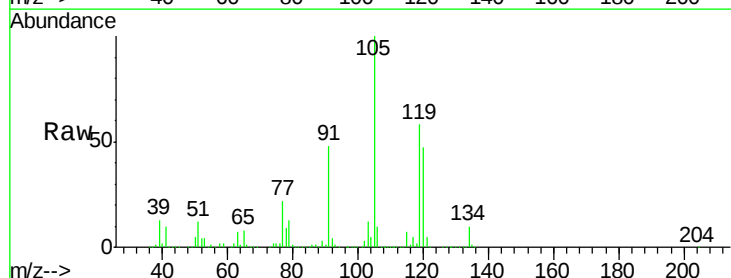
Ion Ratio Lower Upper

105 100

120 47.2 36.7 55.1

91 48.0 35.8 53.8

77 21.8 16.9 25.3

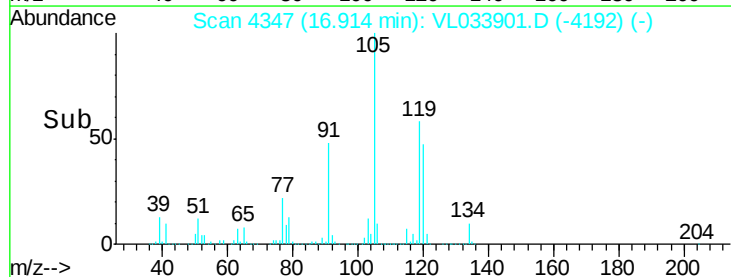
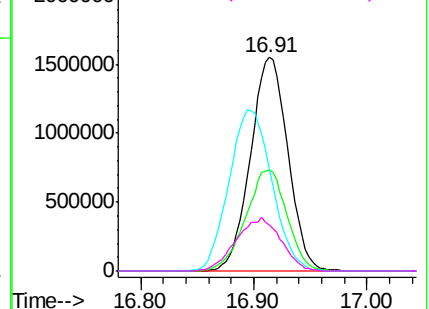


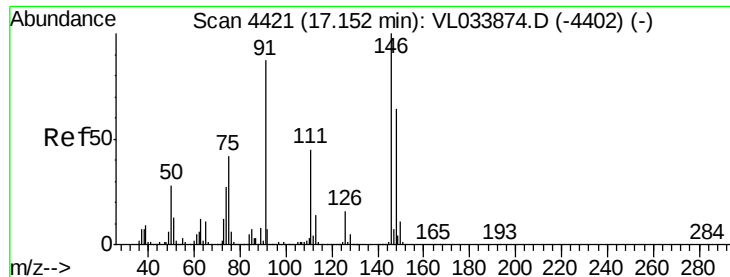
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 8.261 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

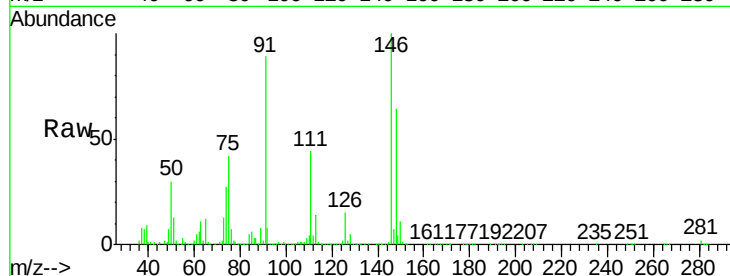
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 2096018

Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.8	68.3
148	63.9	32.2	96.6

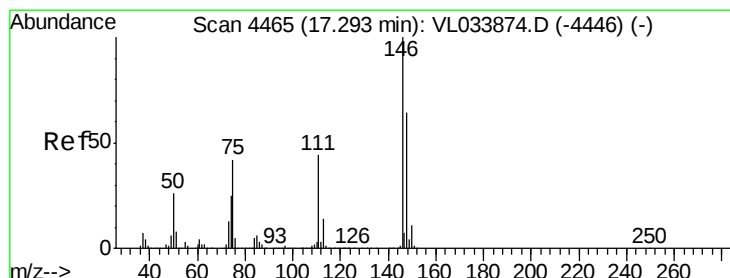
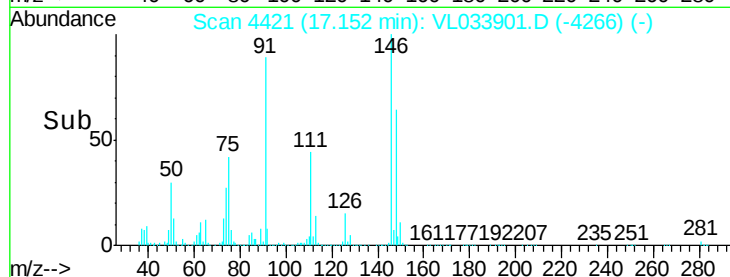
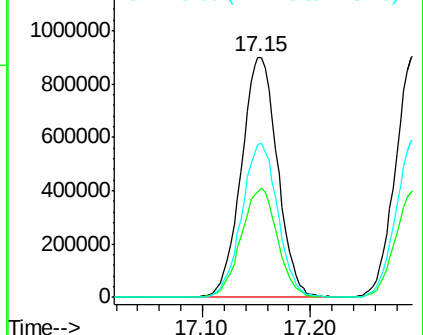


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.756 ppbv

RT: 17.30 min Scan# 4466

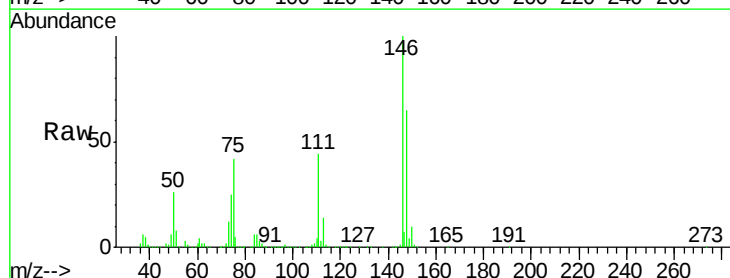
Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:146 Resp: 2039804

Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.1	66.5
148	64.4	32.4	97.0

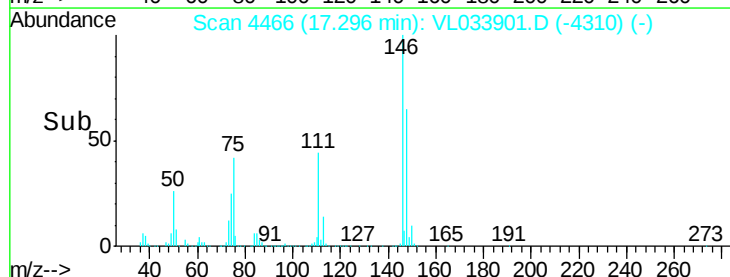
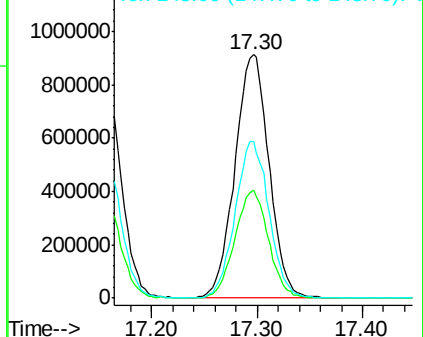


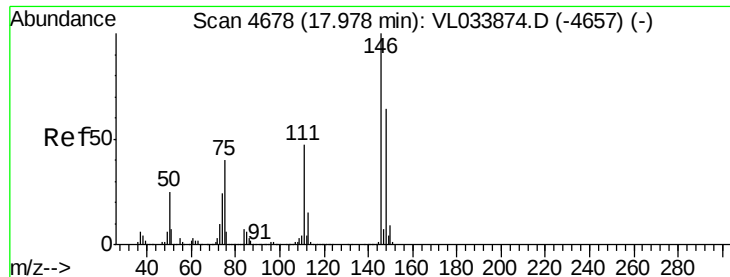
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.392 ppbv

RT: 17.97 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

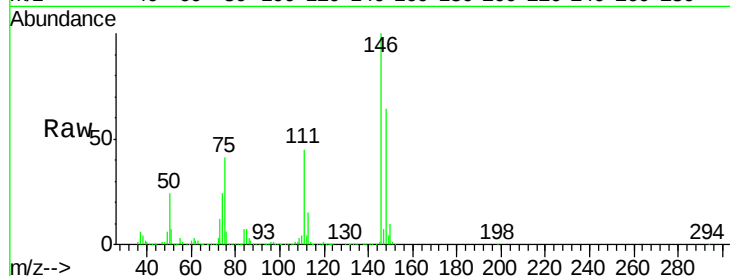
Tot Ion:146 Resp: 1964974

Ion Ratio Lower Upper

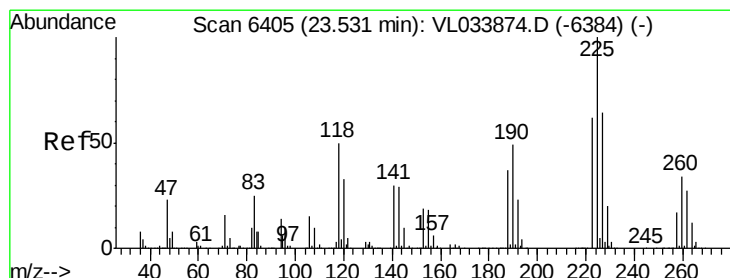
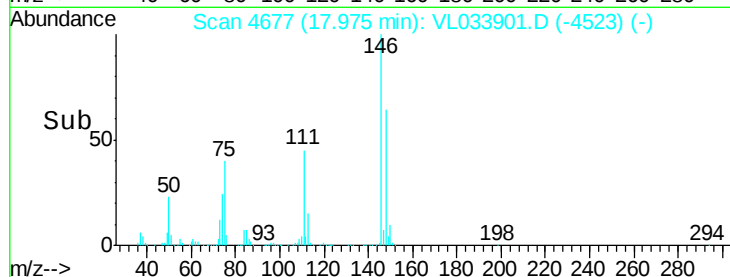
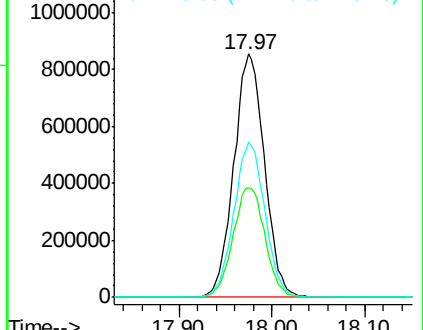
146 100

111 46.7 23.4 70.0

148 64.2 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.990 ppbv

RT: 23.53 min Scan# 6405

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

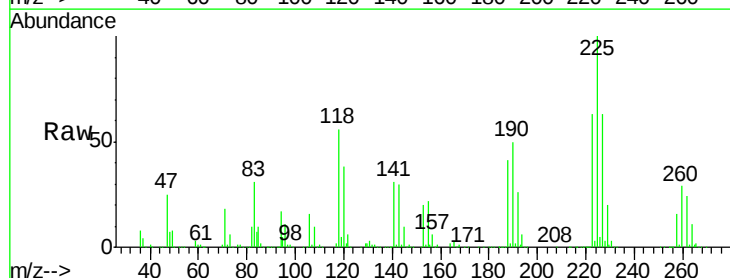
Tgt Ion:225 Resp: 1461195

Ion Ratio Lower Upper

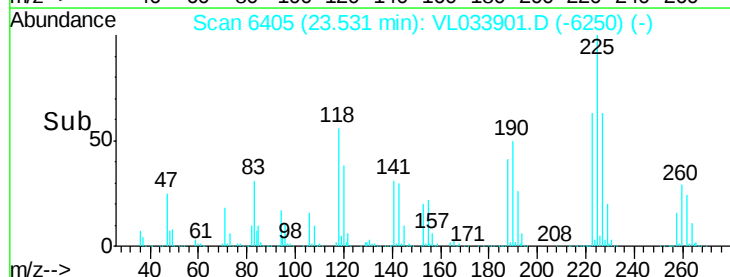
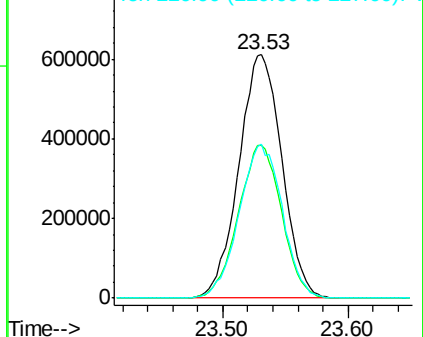
225 100

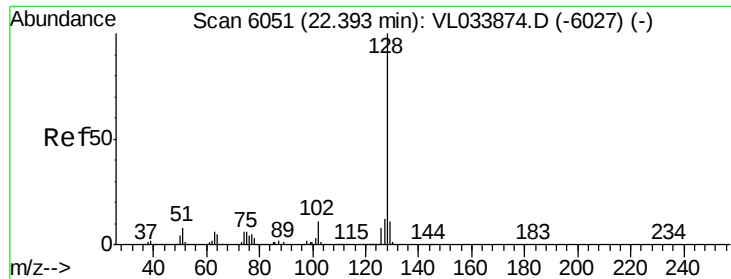
223 63.0 50.8 76.2

227 63.3 51.8 77.6



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.195 ppbv

RT: 22.39 min Scan# 6051

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

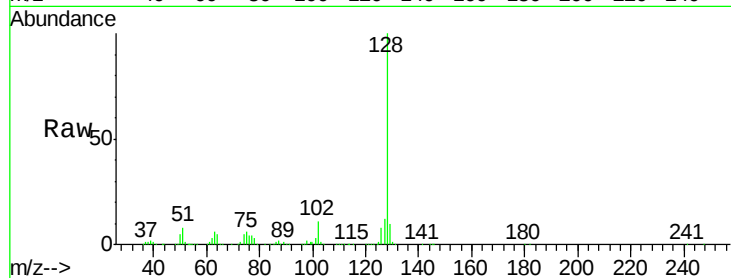
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 2653781

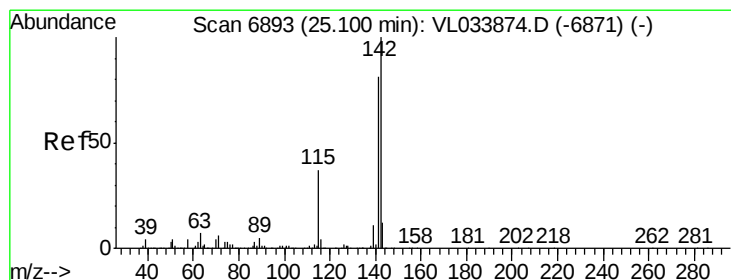
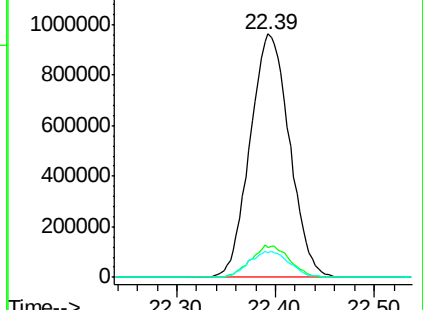
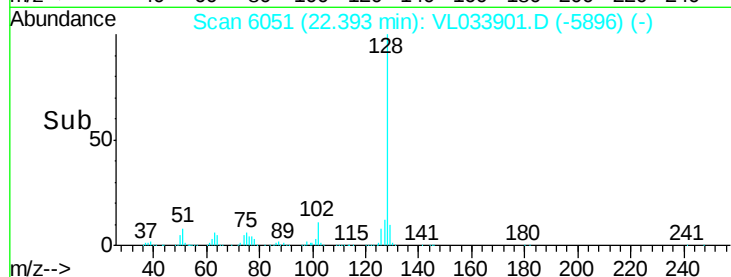
Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.7	14.5
129	10.1	8.6	12.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 7.848 ppbv

RT: 25.10 min Scan# 6894

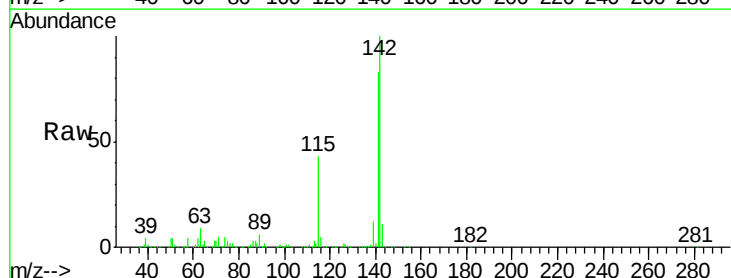
Delta R.T. 0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Tgt Ion:142 Resp: 1014086

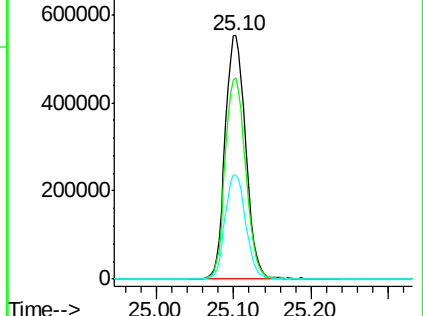
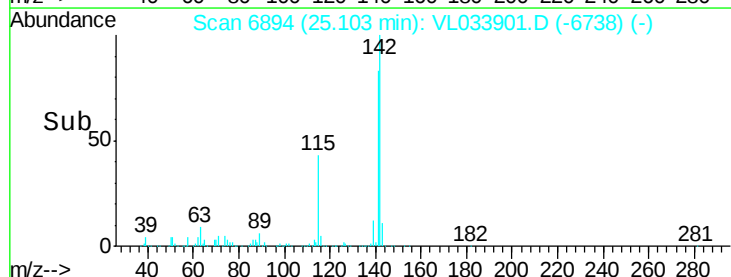
Ion	Ratio	Lower	Upper
142	100		
141	83.2	65.7	98.5
115	43.5	28.9	43.3#

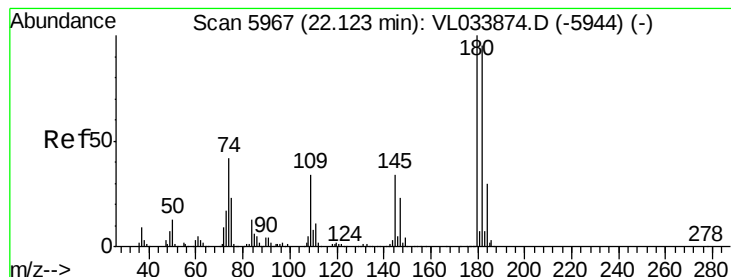


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 7.852 ppbv

RT: 22.12 min Scan# 5966

Delta R.T. -0.00 min

Lab File: VL033901.D

Acq: 13 Jun 2019 17:11

Instrument :

MSVOA_L

ClientSampleId :

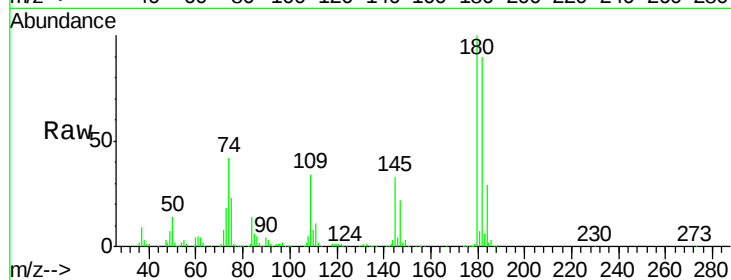
Tot Ion:180 Resp: 1605429

Ion Ratio Lower Upper

180 100

182 94.7 76.9 115.3

184 30.7 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

