

Data File : VL033808.D
Acq On : 28 May 2019 17:01
Operator : SY/AP
Sample : VL0528ABS01DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

Quant Time: May 29 04:38:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	904359	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2433708	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2468082	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1839646	9.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	1404220	7.368	ppbv	99
3) Chlorodifluoromethane	3.01	51	1022543	9.871	ppbv	98
4) Chloromethane	3.17	50	628985	10.616	ppbv	97
5) Vinyl Chloride	3.29	62	613711	10.168	ppbv	99
6) Bromomethane	3.51	94	387322	10.517	ppbv	100
7) Chloroethane	3.60	64	227033	10.585	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1507336	9.810	ppbv	96
9) Propene	3.03	41	495853	11.254	ppbv	100
10) Heptane	8.24	43	1253865	10.049	ppbv	100
11) Trichlorofluoromethane	4.00	101	1653126	9.088	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1146602	9.027	ppbv	96
13) Ethanol	3.64	45	108396	7.611	ppbv	99
14) Bromoethene	3.78	108	505692	10.829	ppbv	98
15) Acetone	3.90	43	1090051	8.687	ppbv	99
16) 1,3-Butadiene	3.36	39	535827	10.724	ppbv	100
17) tert-Butyl alcohol	4.35	59	1099656	10.838	ppbv	99
18) 1,1-Dichloroethene	4.35	96	519975	9.698	ppbv	96
19) Isopropyl Alcohol	4.02	45	823971	10.185	ppbv	100
20) Methylene Chloride	4.40	84	440537	9.119	ppbv	96
21) Allyl Chloride	4.47	41	760993	9.723	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	527382	9.597	ppbv	96
23) Vinyl Acetate	5.15	43	1798079	10.868	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1240043	9.860	ppbv	99
25) Ethyl Acetate	5.77	43	2156324	9.783	ppbv	100
26) Hexane	5.78	57	977710	10.318	ppbv	97
27) Carbon Disulfide	4.62	76	1270627	9.774	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1699572	11.002	ppbv	100
29) Chloroform	5.85	83	1594590	9.136	ppbv	99
30) Cyclohexane	7.24	84	880091	11.048	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	971996	10.345	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1617990	9.284	ppbv	99
34) 2-Butanone	5.32	43	1410003	9.347	ppbv	97
35) Carbon Tetrachloride	7.13	117	1711429	8.779	ppbv	97
36) Benzene	7.00	78	2069336	9.347	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1155621	8.092	ppbv	98
38) Trichloroethene	7.96	130	863739	10.514	ppbv	99
39) 1,2-Dichloropropane	7.73	63	789173	9.561	ppbv	95
40) 1,4-Dioxane	7.95	88	335399	9.714	ppbv #	92
41) Tetrahydrofuran	6.14	42	815175	9.645	ppbv	99
42) Bromodichloromethane	7.91	83	1780921	9.109	ppbv	97
43) Methyl Methacrylate	8.13	69	864304	10.609	ppbv	95

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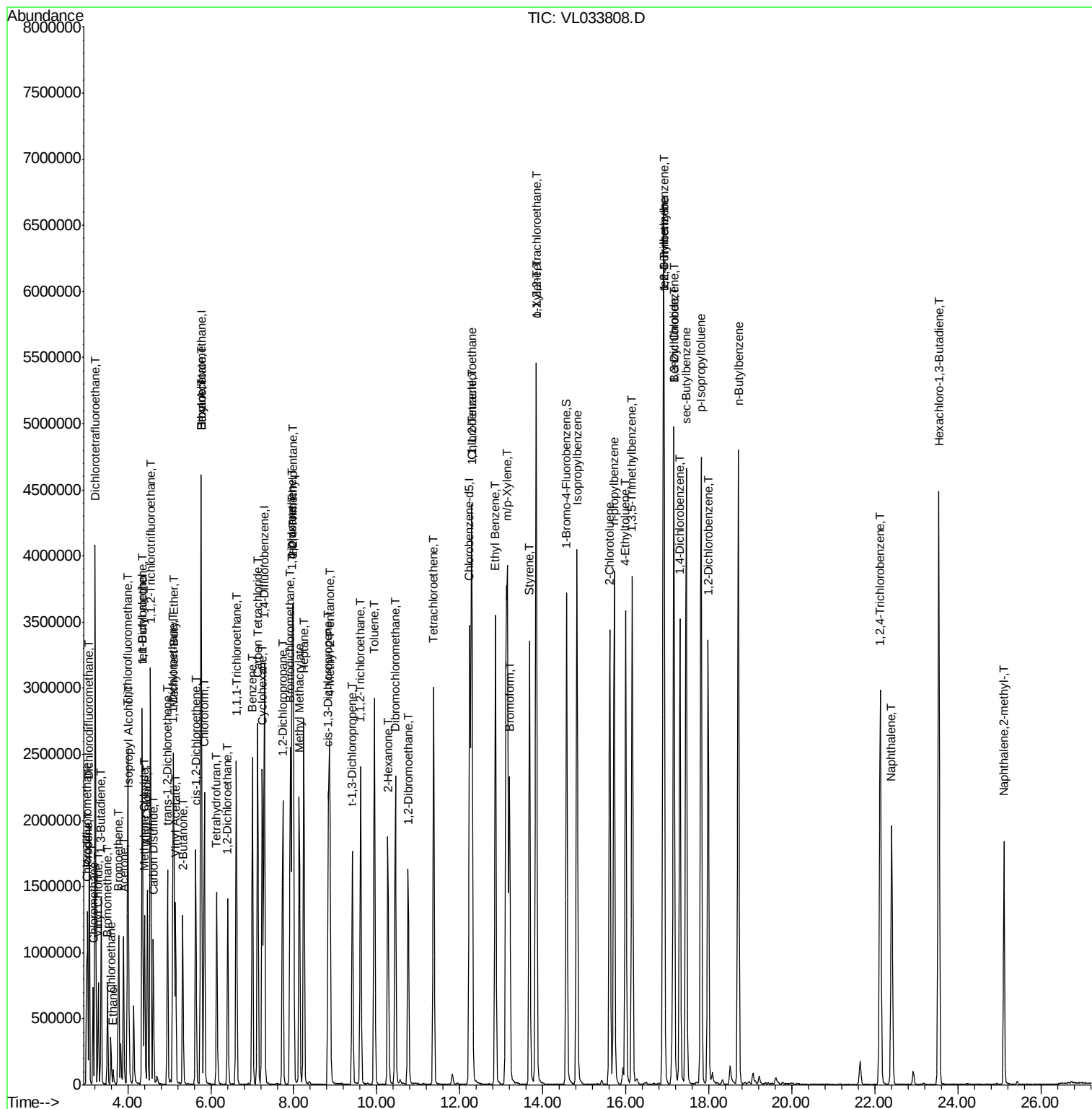
Quant Time: May 29 04:38:34 2019
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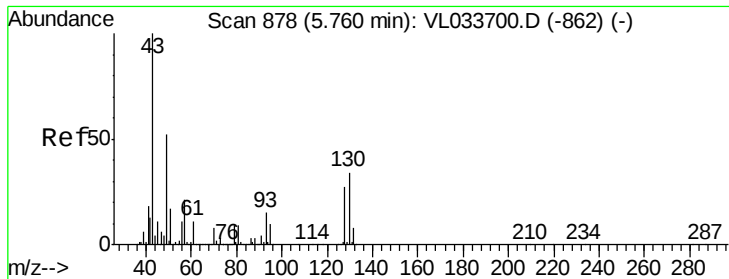
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3488329	9.323	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1088762	10.541	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1238292	10.239	ppbv	93
47) 1,1,2-Trichloroethane	9.61	97	881550	9.402	ppbv	97
48) Dibromochloromethane	10.44	129	1494757	9.200	ppbv	99
49) Bromoform	13.20	173	1375343	10.061	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2115898	9.119	ppbv	99
51) 2-Hexanone	10.26	43	1748327	9.654	ppbv #	98
52) Tetrachloroethene	11.36	164	796426	10.234	ppbv	97
53) Toluene	9.94	91	2440418	10.220	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1368469	9.564	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.27	131	1022934	8.957	ppbv	96
57) Chlorobenzene	12.30	112	1848474	9.099	ppbv	97
58) Ethyl Benzene	12.86	91	3417339	10.456	ppbv	100
59) m/p-Xylene	13.15	91	2678135	9.374	ppbv #	21
60) o-Xylene	13.85	91	2777907	9.645	ppbv	98
61) Styrene	13.68	104	2151350	11.095	ppbv	98
62) Isopropylbenzene	14.82	105	3789552	9.770	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1899545	9.069	ppbv	100
64) n-propylbenzene	15.72	120	962097	9.590	ppbv	99
65) tert-Butylbenzene	16.90	119	3389249	9.571	ppbv	98
66) Benzyl Chloride	17.15	91	1698482	10.070	ppbv	98
67) sec-Butylbenzene	17.45	105	4822377	9.729	ppbv	100
69) p-Isopropyltoluene	17.81	119	4025198	9.825	ppbv	99
70) n-Butylbenzene	18.71	91	4179159	9.513	ppbv	100
71) 2-Chlorotoluene	15.61	91	2837481	9.860	ppbv	98
72) 4-Ethyltoluene	16.00	105	3338988	10.140	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3144722	9.788	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3236107	9.255	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1933815	9.025	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1917425	9.415	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1875205	9.314	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1222235	8.029	ppbv	99
79) Naphthalene	22.40	128	2609664	8.035	ppbv	98
80) Naphthalene,2-methyl-	25.11	142	1029614	8.343	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1502606	7.901	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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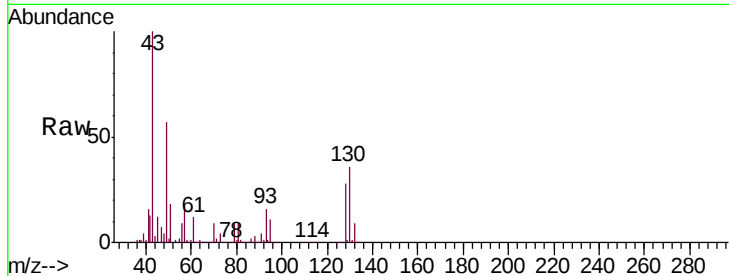
Tgt Ion: 49 Resp: 904359

Ion Ratio Lower Upper

49 100

128 52.4 25.2 75.6

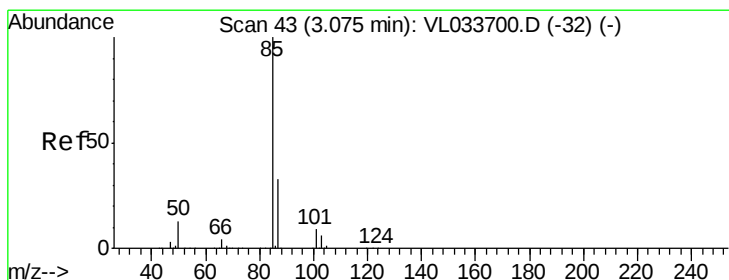
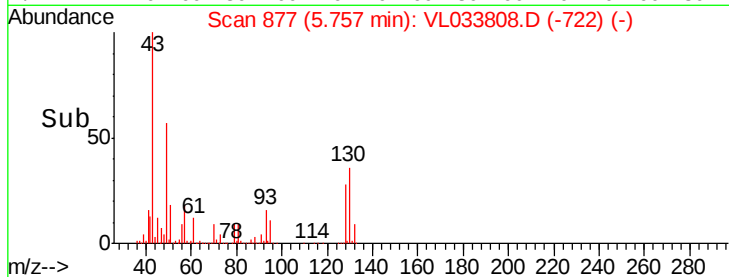
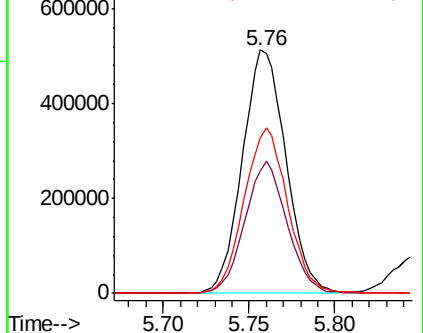
130 67.9 32.5 97.5



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: 7.368 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033808.D

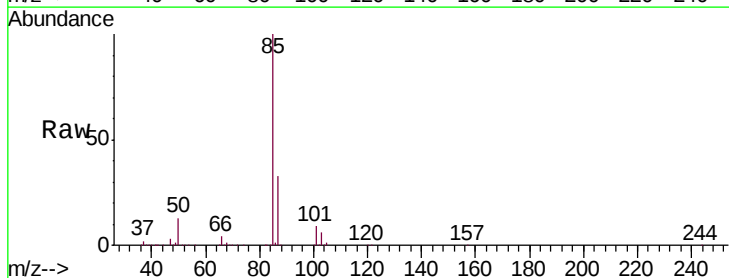
Acq: 28 May 2019 17:01

Tgt Ion: 85 Resp: 1404220

Ion Ratio Lower Upper

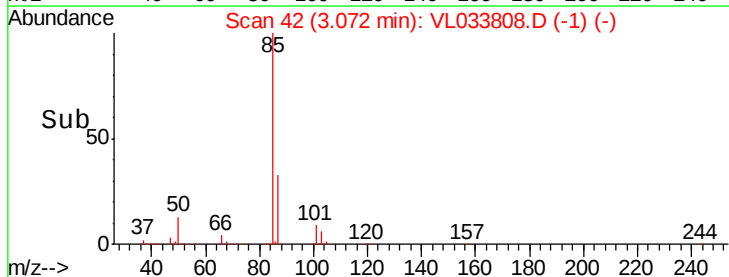
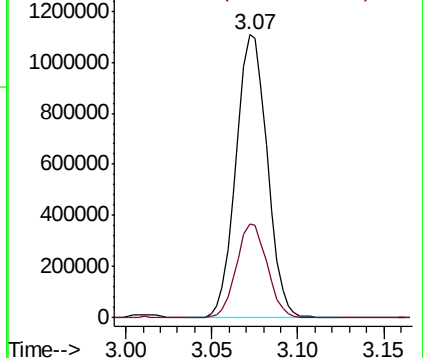
85 100

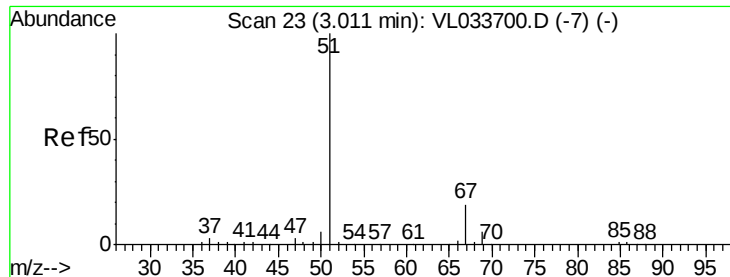
87 33.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.871 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

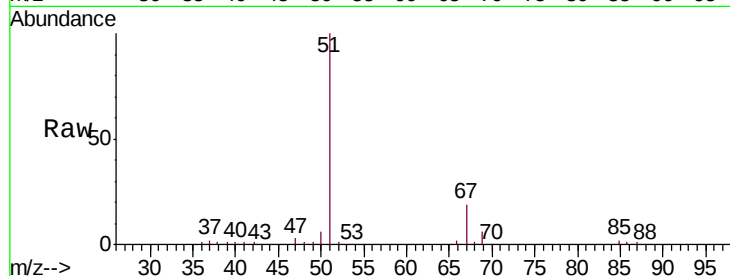
VL0528ABS01DUP

Tgt Ion: 51 Resp: 1022543

Ion Ratio Lower Upper

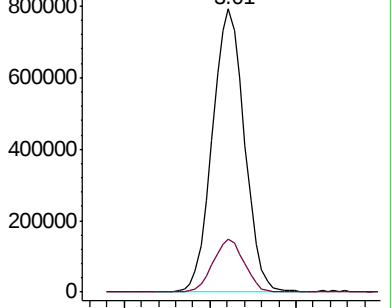
51 100

67 18.5 15.6 23.4

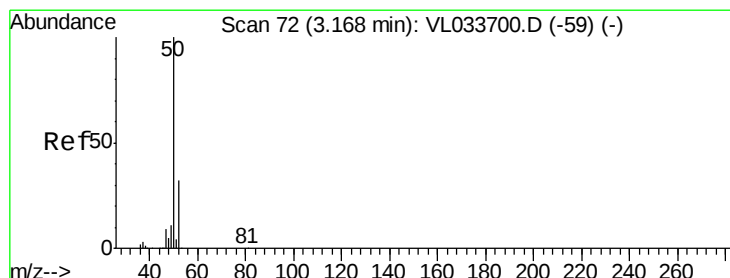
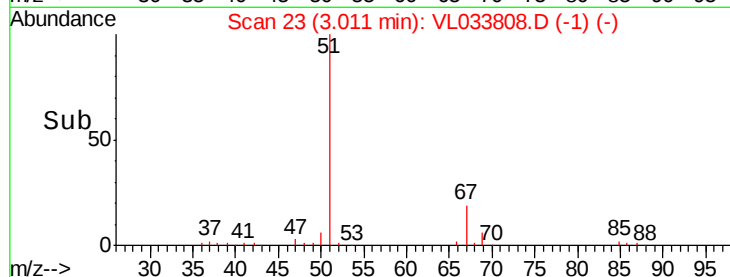


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 10.616 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033808.D

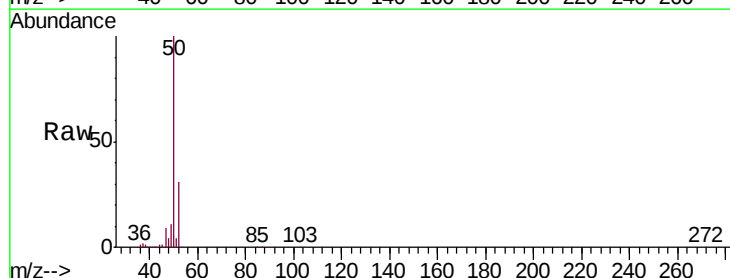
Acq: 28 May 2019 17:01

Tgt Ion: 50 Resp: 628985

Ion Ratio Lower Upper

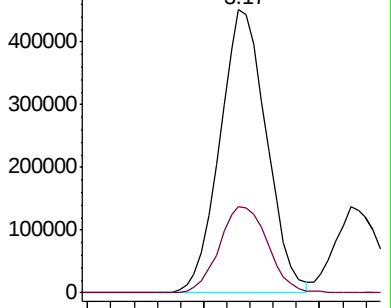
50 100

52 30.6 25.7 38.5

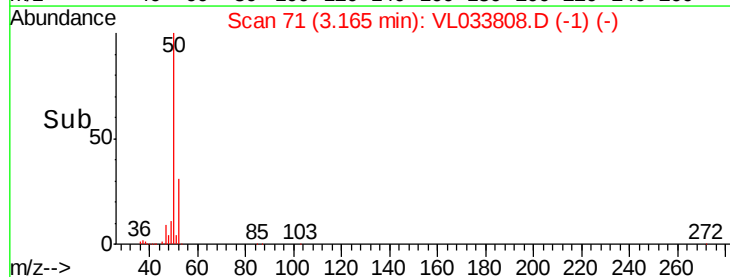


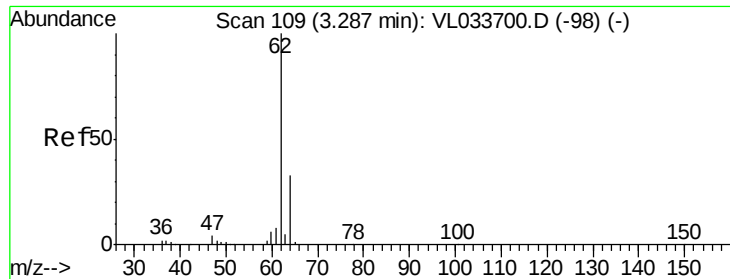
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 10.168 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

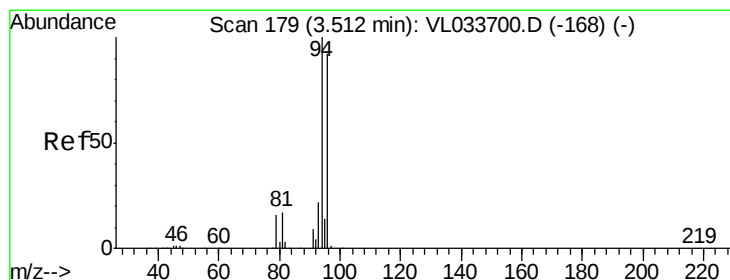
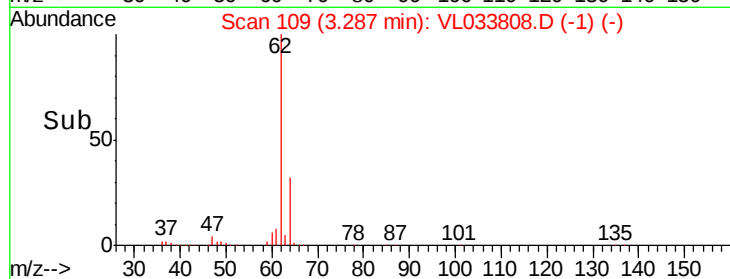
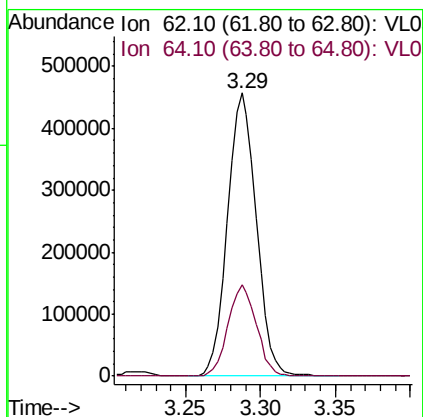
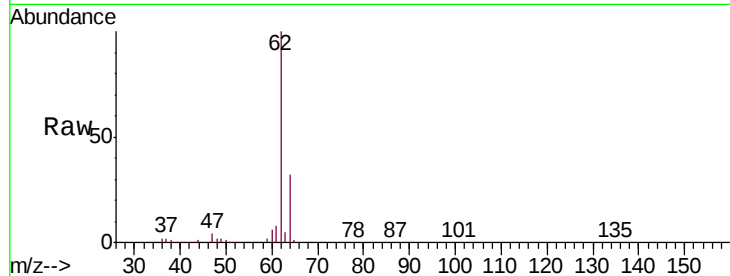
VL0528ABS01DUP

Tgt Ion: 62 Resp: 613711

Ion Ratio Lower Upper

62 100

64 32.4 26.4 39.6



#6

Bromomethane

Concen: 10.517 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033808.D

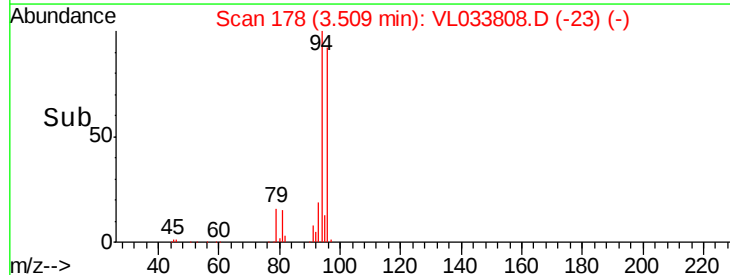
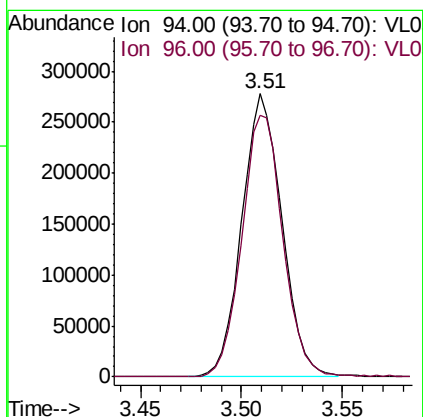
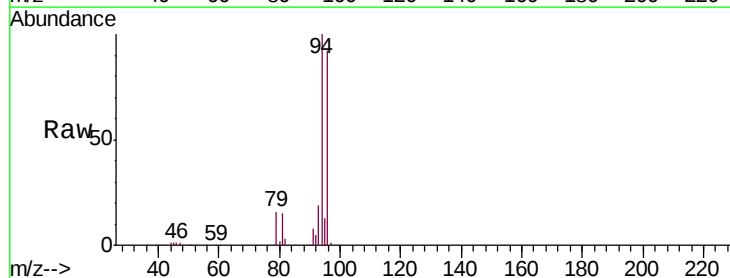
Acq: 28 May 2019 17:01

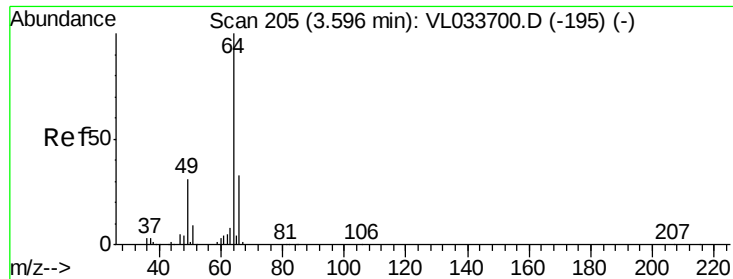
Tgt Ion: 94 Resp: 387322

Ion Ratio Lower Upper

94 100

96 92.3 73.6 110.4





#7

Chloroethane

Concen: 10.585 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

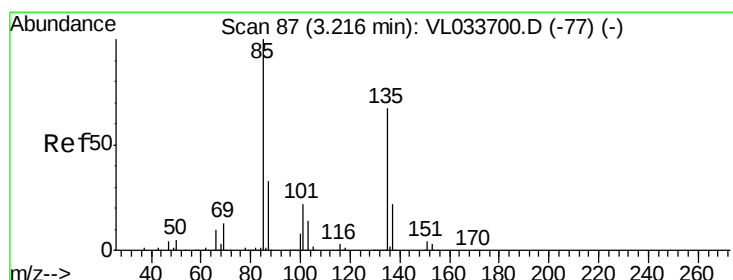
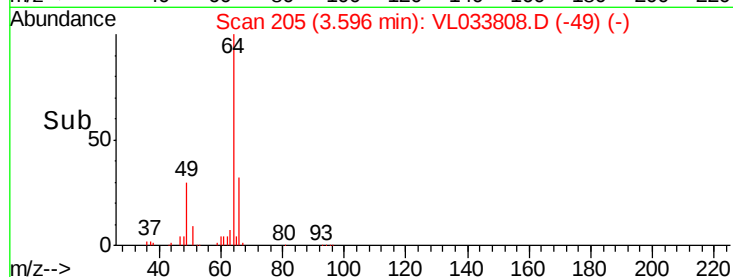
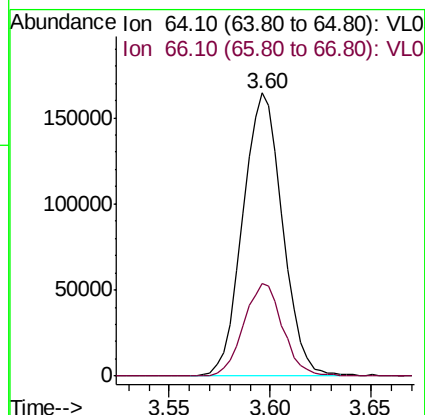
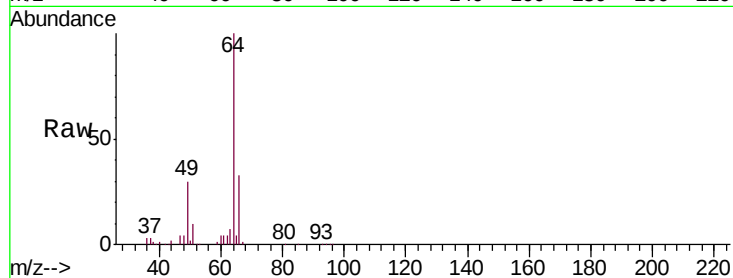
VL0528ABS01DUP

Tgt Ion: 64 Resp: 227033

Ion Ratio Lower Upper

64 100

66 33.0 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 9.810 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033808.D

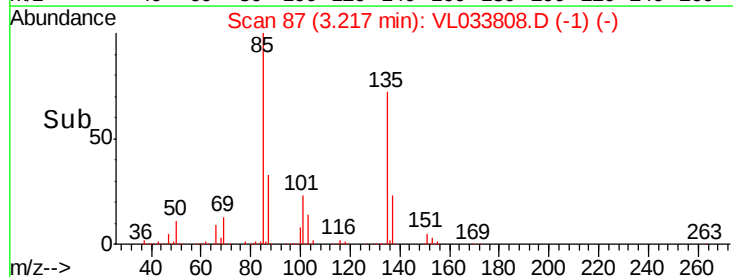
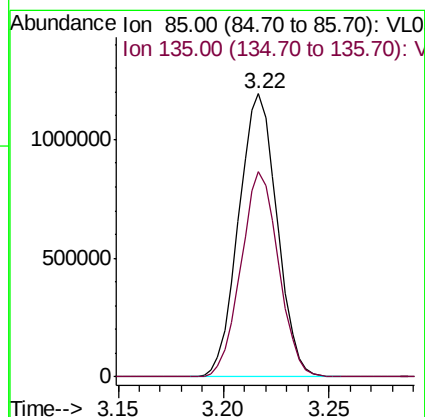
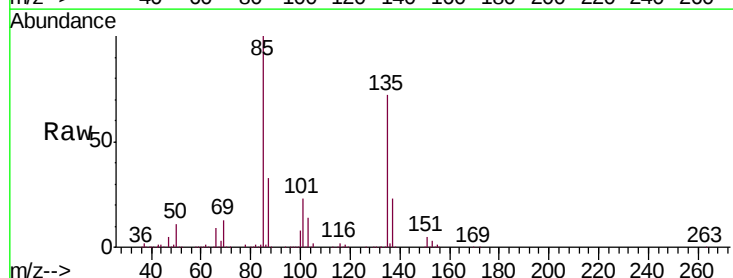
Acq: 28 May 2019 17:01

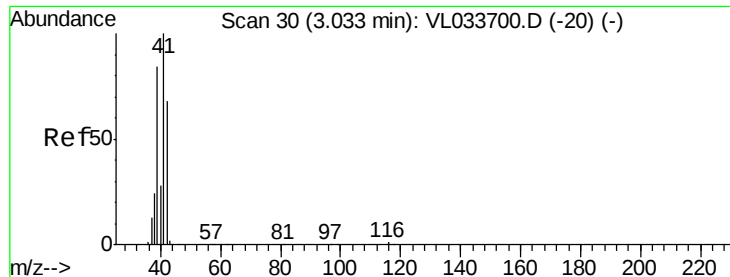
Tgt Ion: 85 Resp: 1507336

Ion Ratio Lower Upper

85 100

135 71.4 54.5 81.7





#9

Propene

Concen: 11.254 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

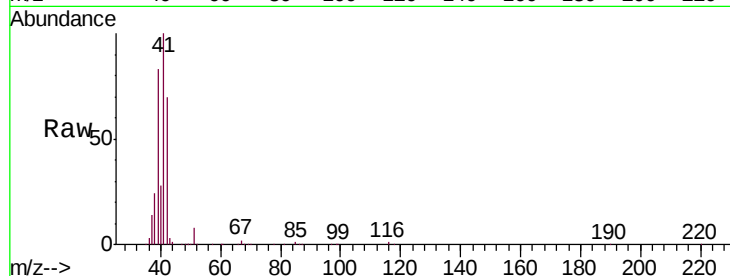
VL0528ABS01DUP

Tgt Ion: 41 Resp: 495853

Ion Ratio Lower Upper

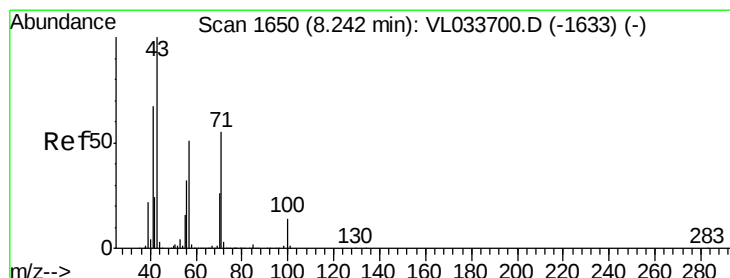
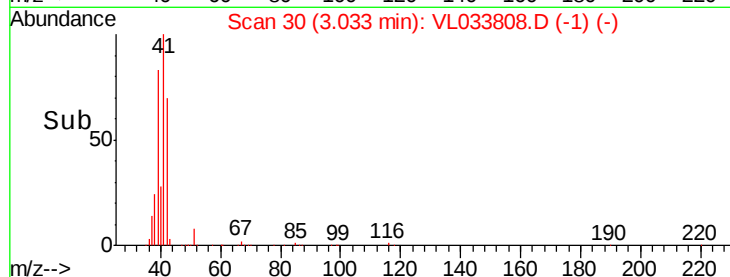
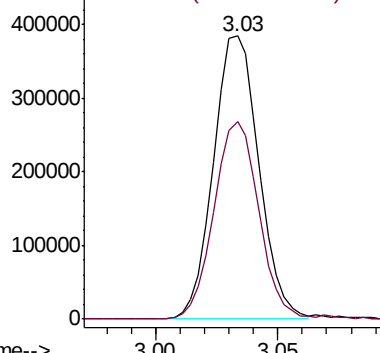
41 100

42 69.8 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.049 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VL033808.D

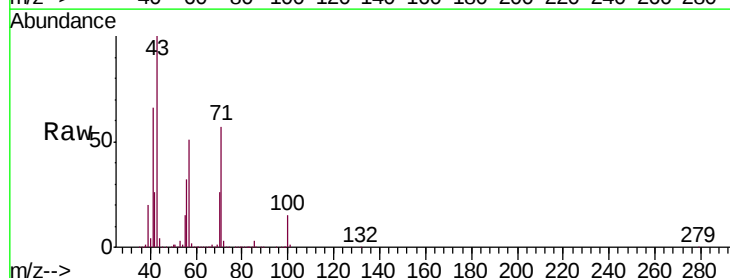
Acq: 28 May 2019 17:01

Tgt Ion: 43 Resp: 1253865

Ion Ratio Lower Upper

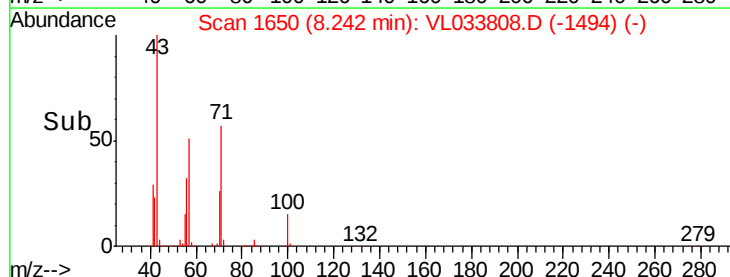
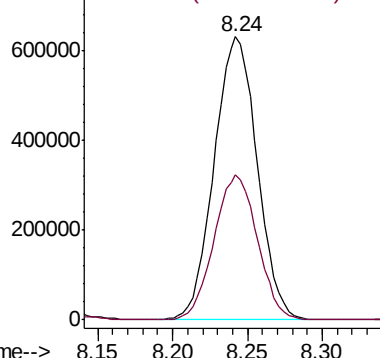
43 100

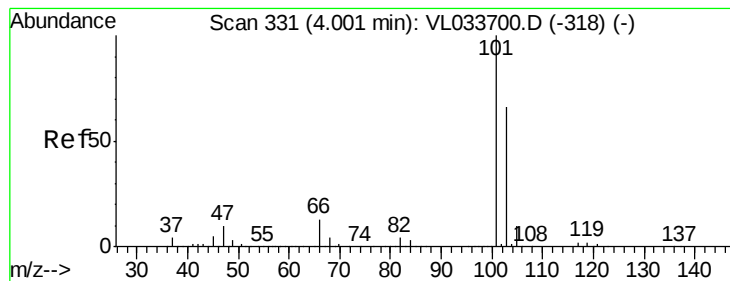
57 51.9 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.088 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

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Acq: 28 May 2019 17:01

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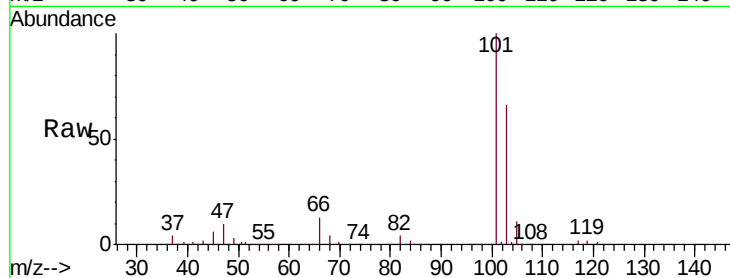
VL0528ABS01DUP

Tgt Ion:101 Resp: 1653126

Ion Ratio Lower Upper

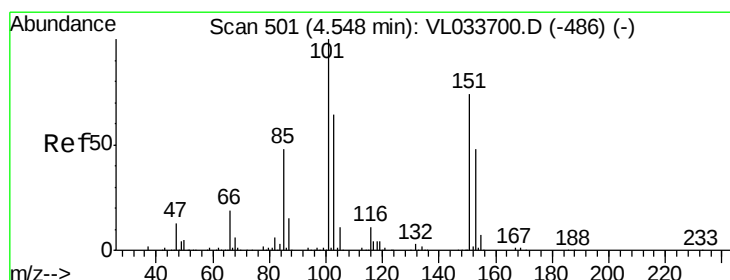
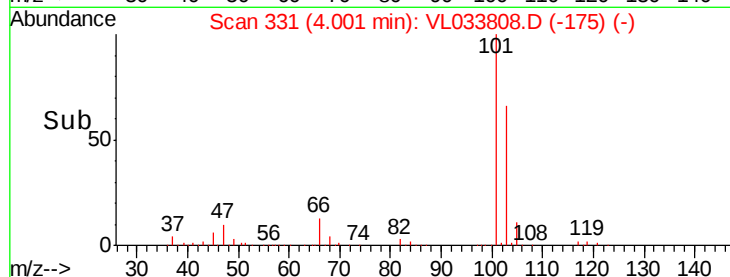
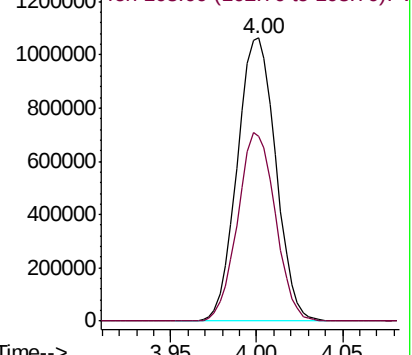
101 100

103 65.5 52.6 78.8



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: 9.027 ppbv

RT: 4.55 min Scan# 501

Delta R.T. 0.00 min

Lab File: VL033808.D

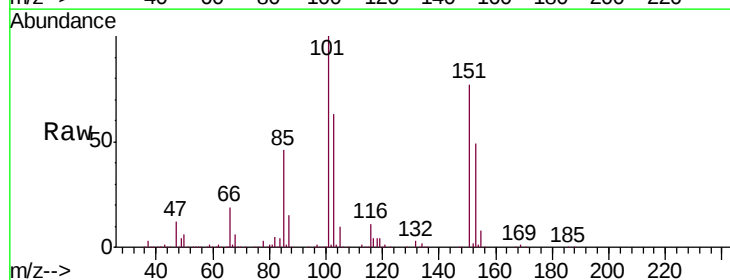
Acq: 28 May 2019 17:01

Tgt Ion:101 Resp: 1146602

Ion Ratio Lower Upper

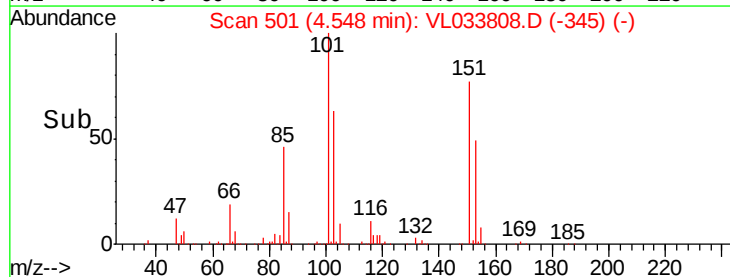
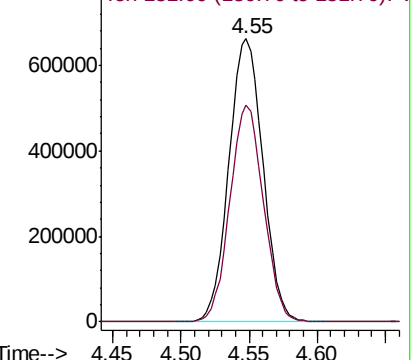
101 100

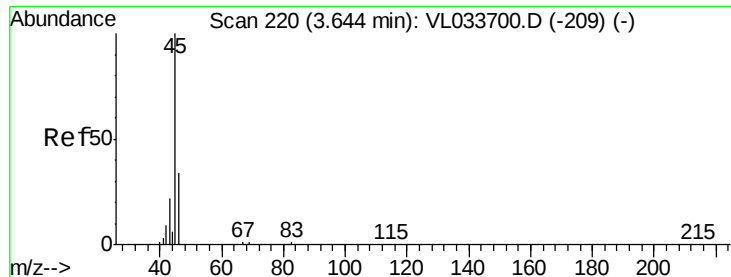
151 75.8 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.611 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

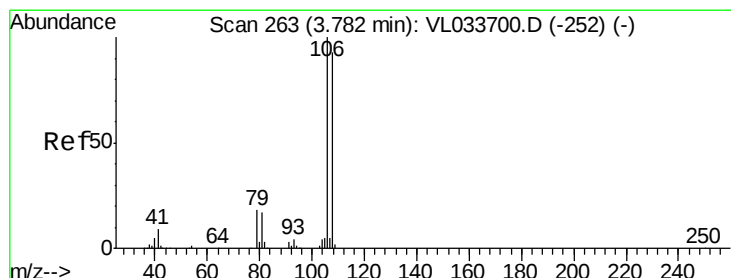
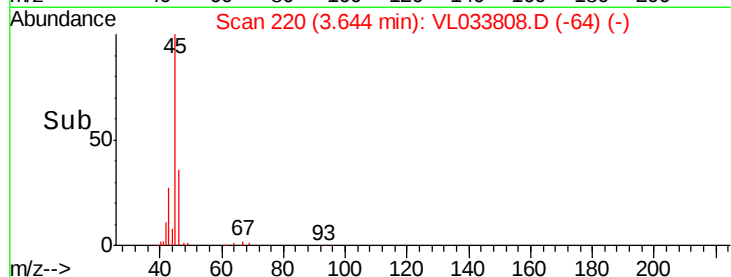
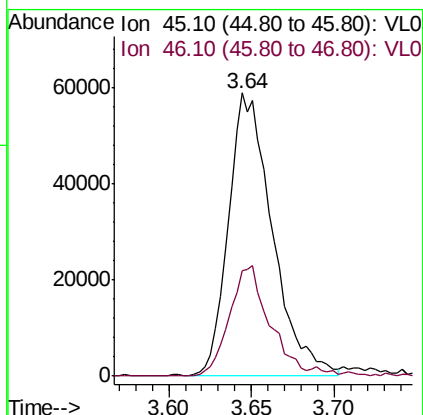
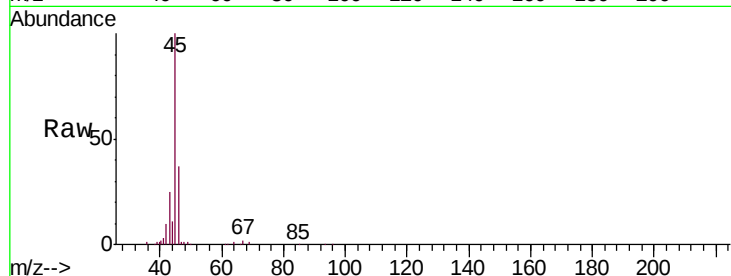
VL0528ABS01DUP

Tgt Ion: 45 Resp: 108396

Ion Ratio Lower Upper

45 100

46 37.5 14.8 59.0



#14

Bromoethene

Concen: 10.829 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

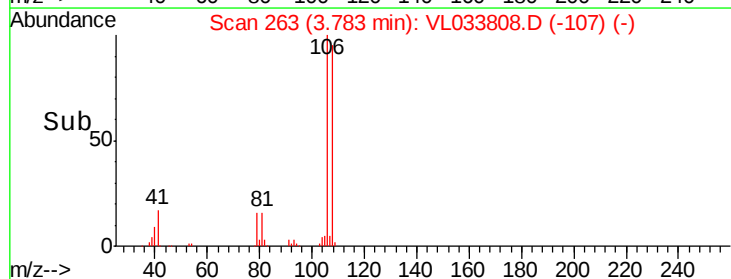
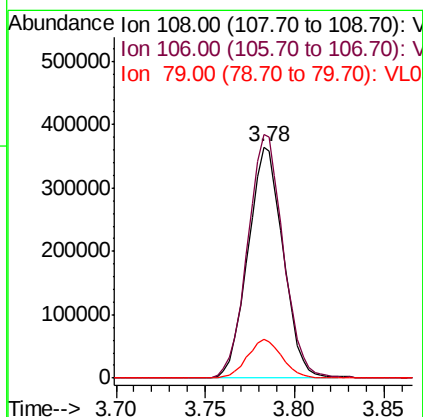
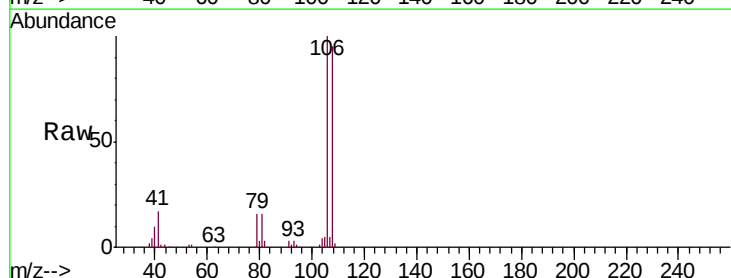
Tgt Ion: 108 Resp: 505692

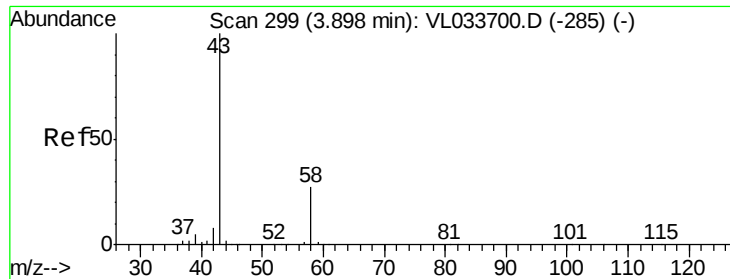
Ion Ratio Lower Upper

108 100

106 106.9 86.5 129.7

79 17.0 15.1 22.7





#15

Acetone

Concen: 8.687 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

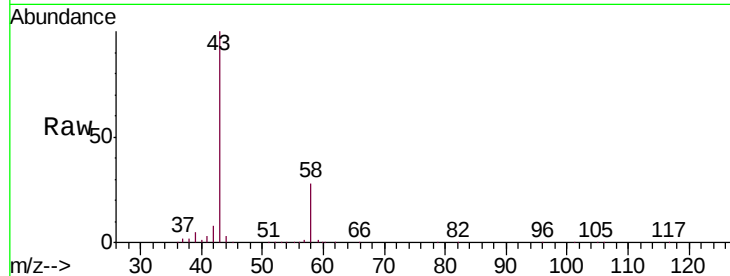
VL0528ABS01DUP

Tgt Ion: 43 Resp: 1090051

Ion Ratio Lower Upper

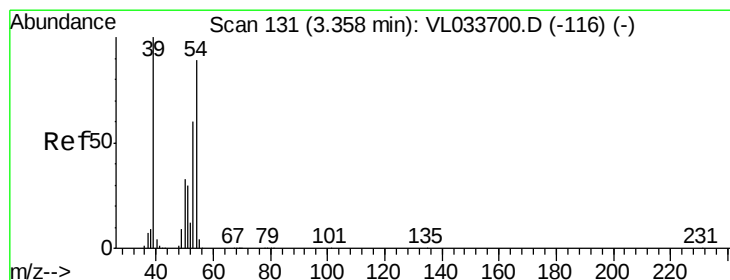
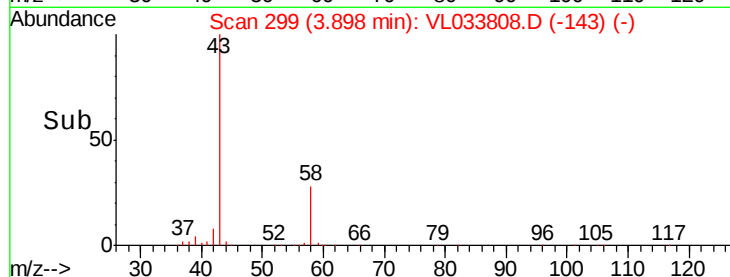
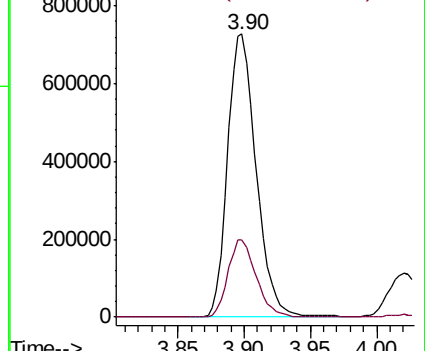
43 100

58 27.1 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.724 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033808.D

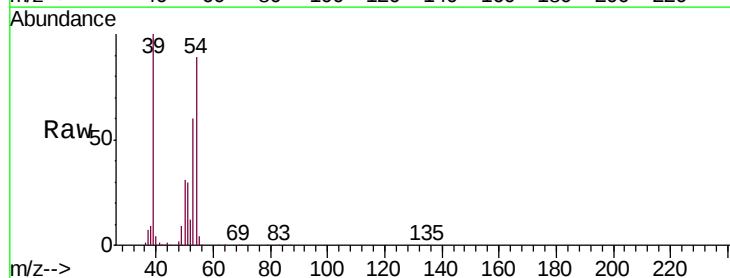
Acq: 28 May 2019 17:01

Tgt Ion: 39 Resp: 535827

Ion Ratio Lower Upper

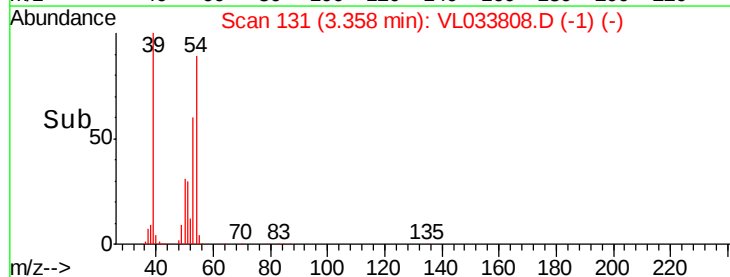
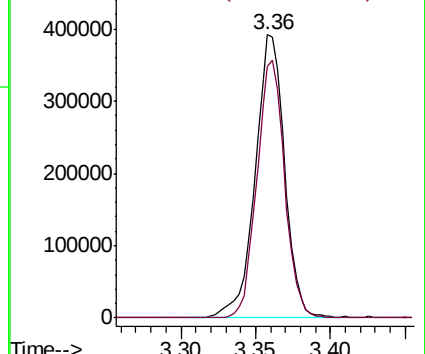
39 100

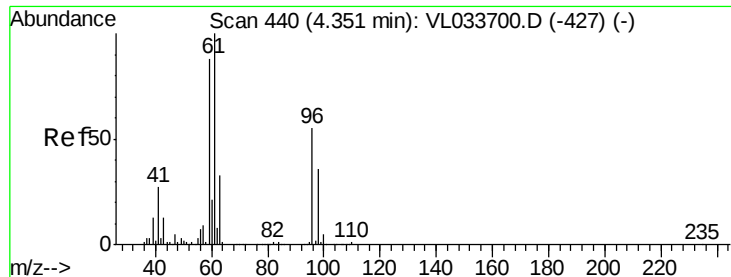
54 86.2 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



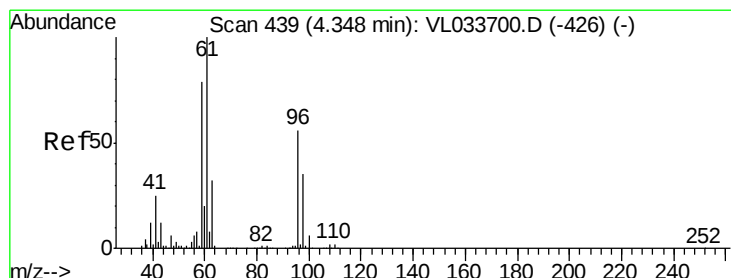
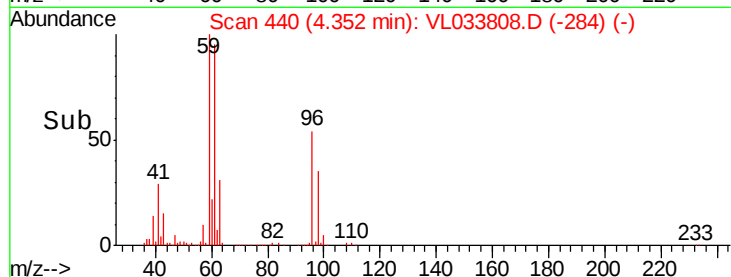
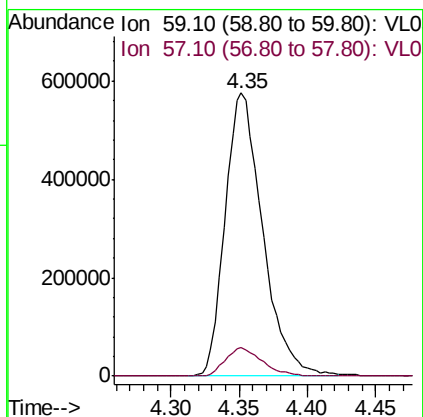
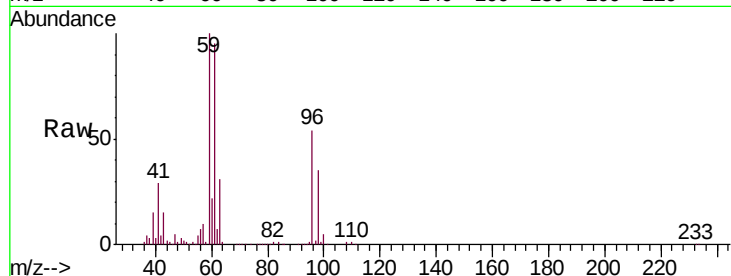


#17

tert-Butyl alcohol
 Concen: 10.838 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. 0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

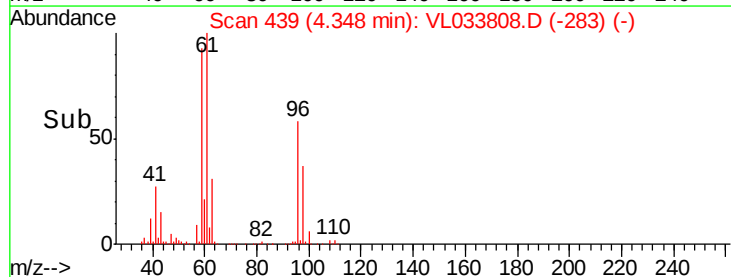
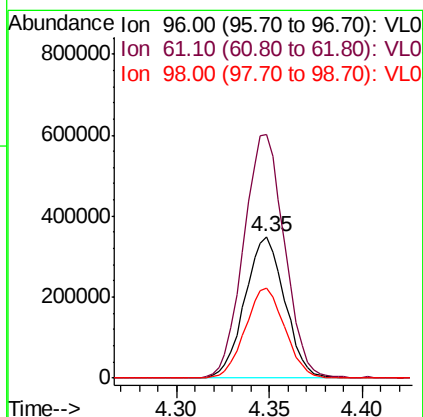
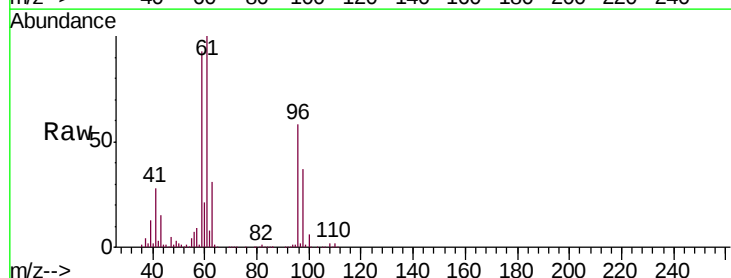
Tgt Ion: 59 Resp: 1099656
 Ion Ratio Lower Upper
 59 100
 57 10.1 8.4 12.6

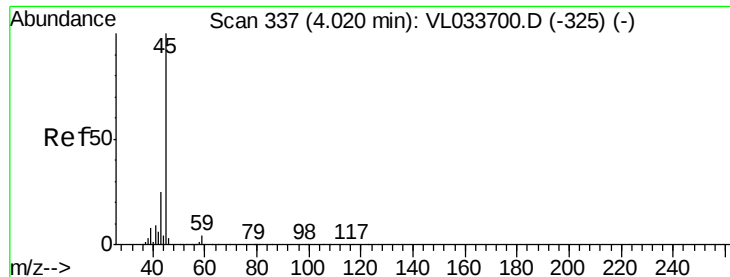


#18

1,1-Dichloroethene
 Concen: 9.698 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. 0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion: 96 Resp: 519975
 Ion Ratio Lower Upper
 96 100
 61 172.0 143.1 214.7
 98 63.5 49.5 74.3

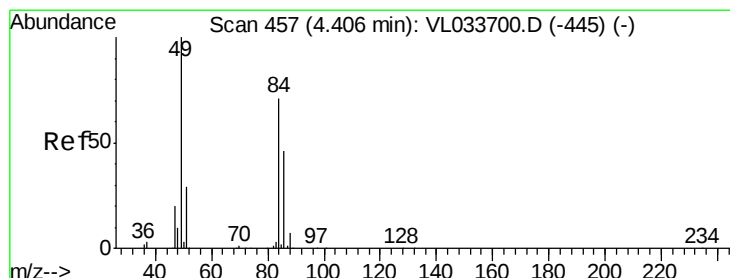
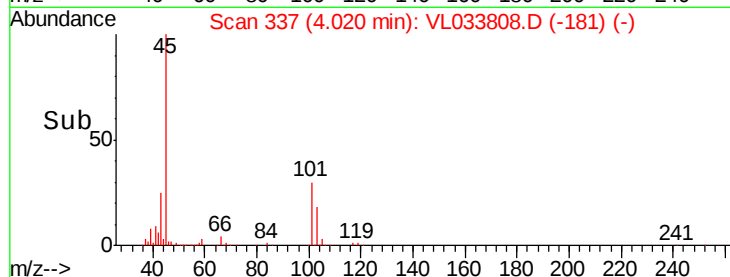
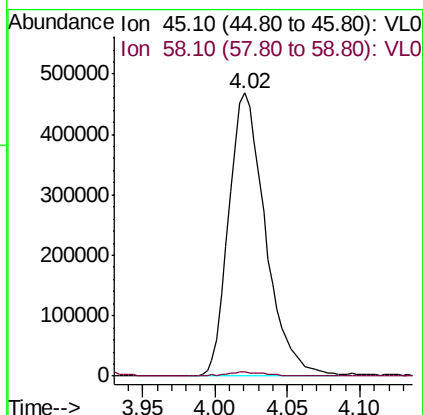
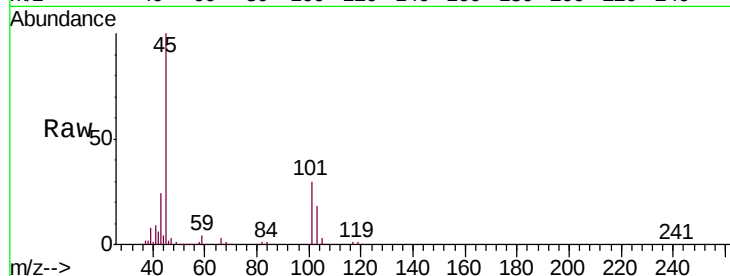




#19
Isopropyl Alcohol
Concen: 10.185 ppbv
RT: 4.02 min Scan# 337
Delta R.T. 0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

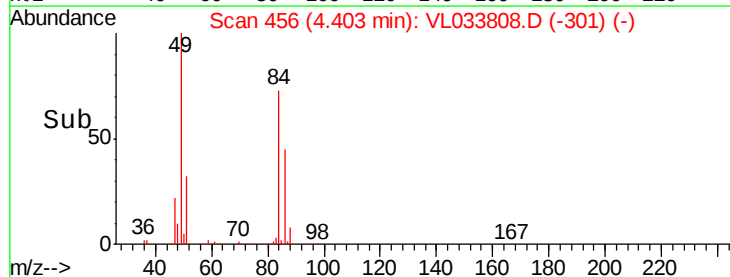
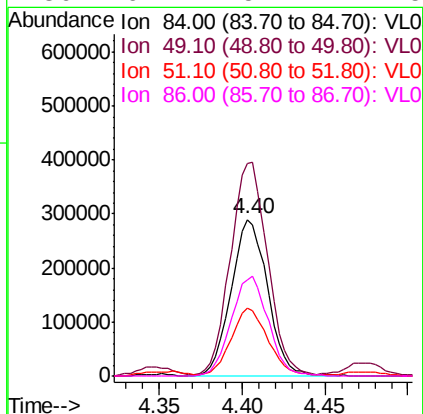
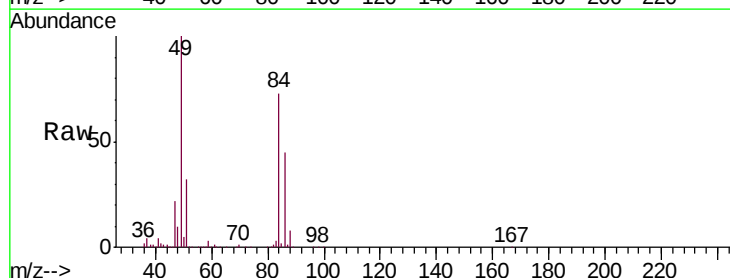
Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

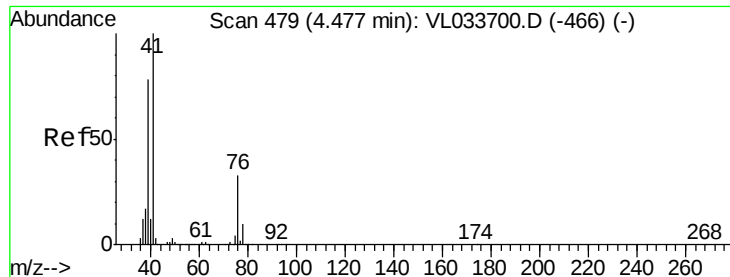
Tgt Ion: 45 Resp: 823971
Ion Ratio Lower Upper
45 100
58 2.0 1.6 2.4



#20
Methylene Chloride
Concen: 9.119 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion: 84 Resp: 440537
Ion Ratio Lower Upper
84 100
49 135.6 112.8 169.2
51 42.7 33.4 50.0
86 61.4 51.7 77.5





#21

Allyl Chloride

Concen: 9.723 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

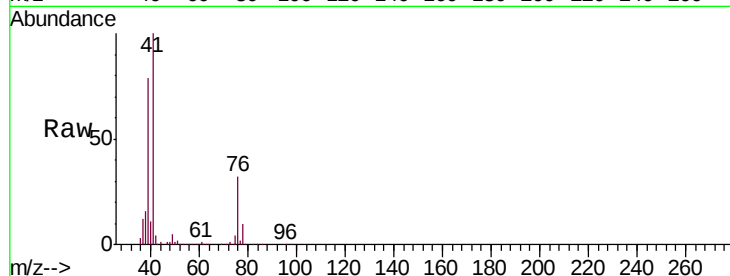
Tgt Ion: 41 Resp: 760993

Ion Ratio Lower Upper

41 100

76 32.5 25.9 38.9

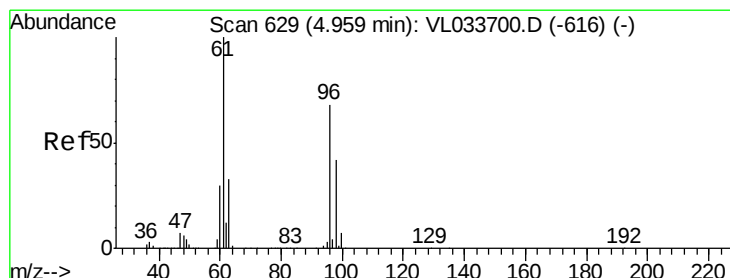
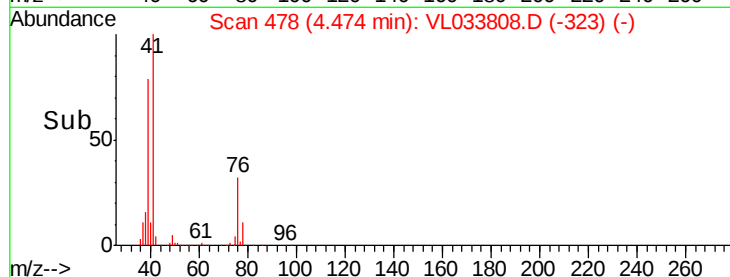
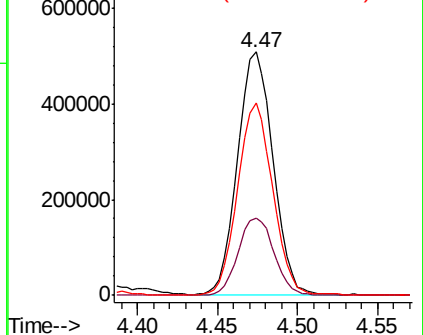
39 78.9 64.6 97.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.597 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

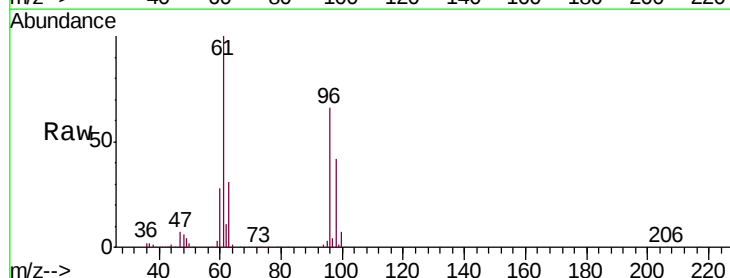
Tgt Ion: 96 Resp: 527382

Ion Ratio Lower Upper

96 100

61 151.4 116.8 175.2

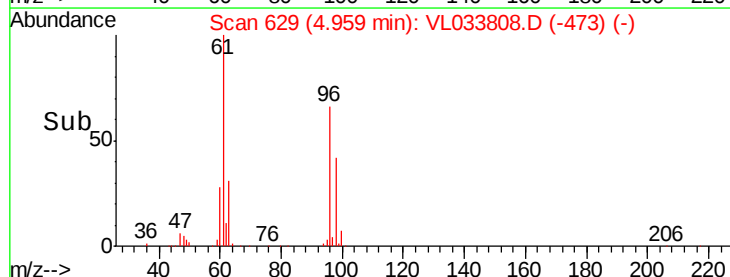
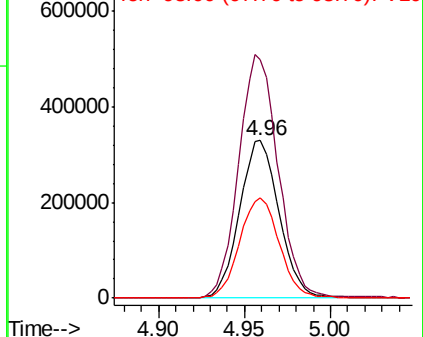
98 63.9 49.4 74.0

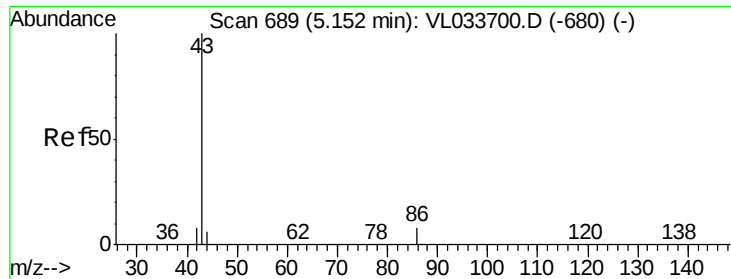


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.868 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

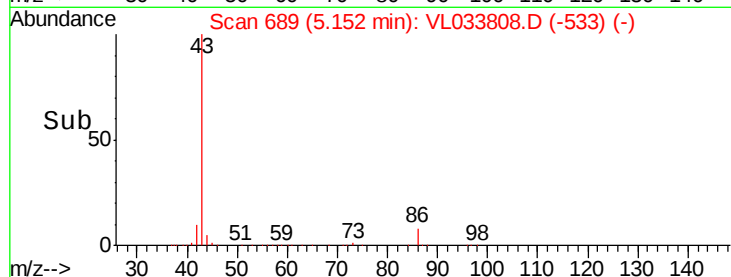
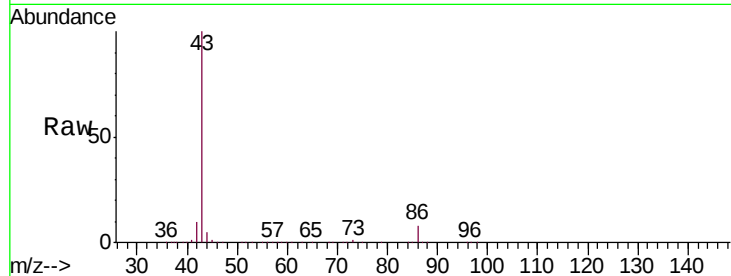
MSVOA_L

ClientSampleId :

VL0528ABS01DUP

Tgt Ion: 43 Resp: 1798079

Ion	Ratio	Lower	Upper
43	100		
86	8.2	6.0	9.0
42	9.6	7.5	11.3
44	5.2	4.4	6.6

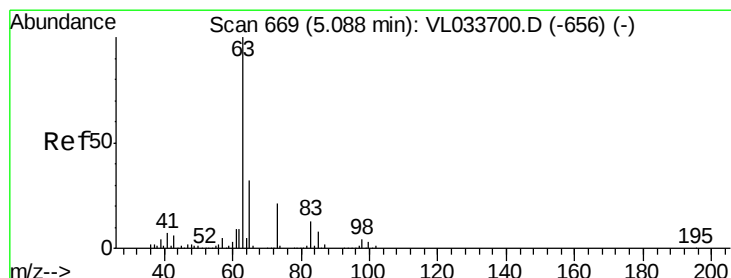
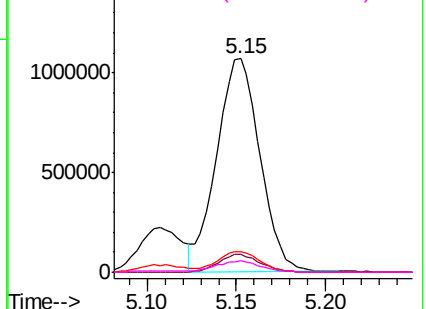


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.860 ppbv

RT: 5.09 min Scan# 669

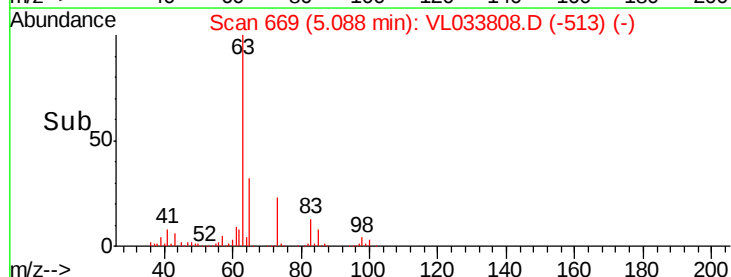
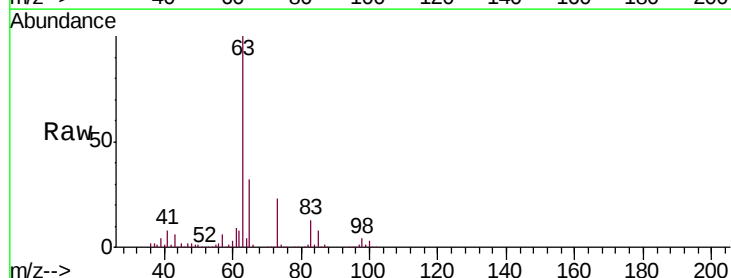
Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Tgt Ion: 63 Resp: 1240043

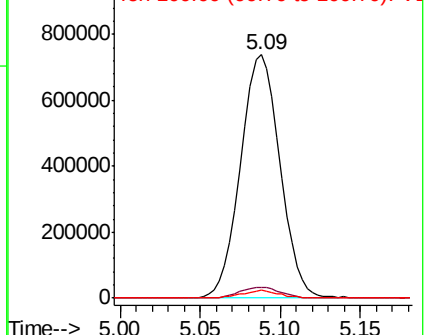
Ion	Ratio	Lower	Upper
63	100		
98	4.3	1.8	5.5
100	3.1	1.4	4.2

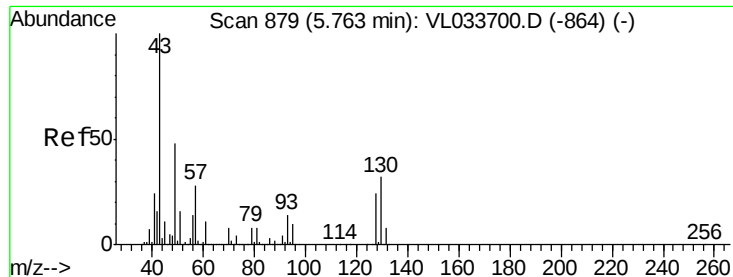


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



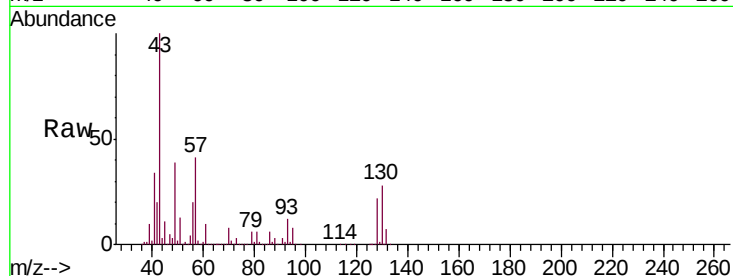


#25
Ethyl Acetate
Concen: 9.783 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

Tgt Ion: 43 Resp: 2156324

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.7	7.7	11.5
70	7.4	5.8	8.6



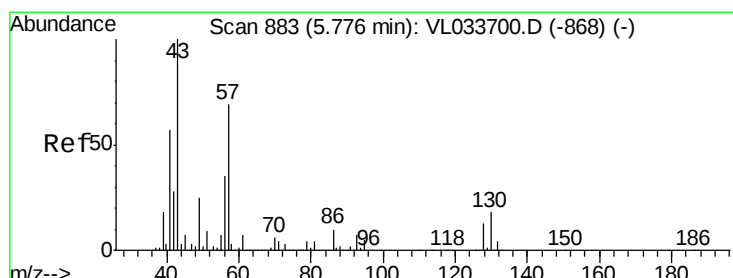
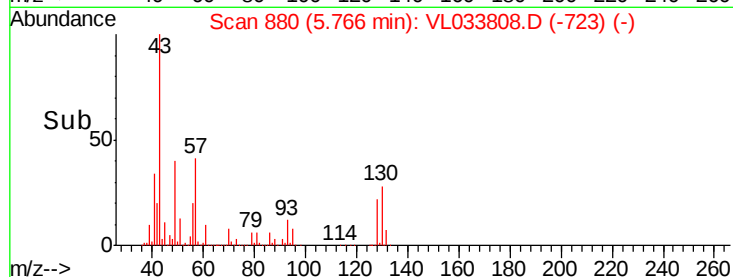
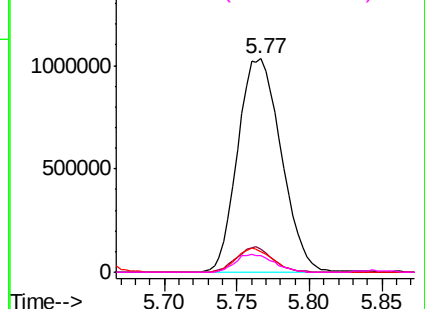
Abundance

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

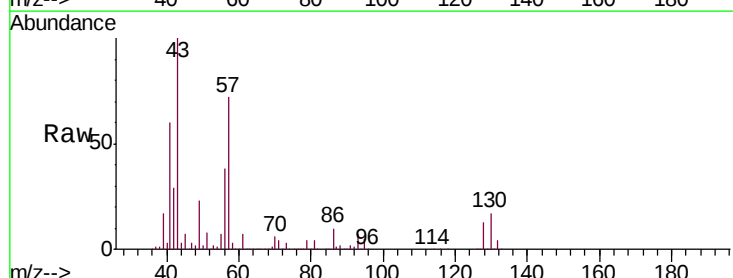
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 10.318 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion: 57 Resp: 977710

Ion	Ratio	Lower	Upper
57	100		
41	84.4	69.8	104.6
43	221.9	181.8	272.6
56	52.0	42.1	63.1



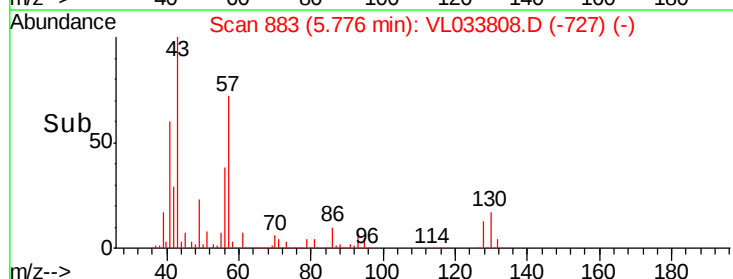
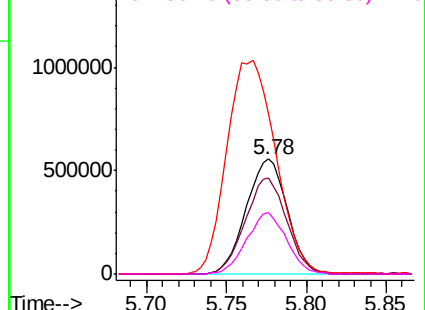
Abundance

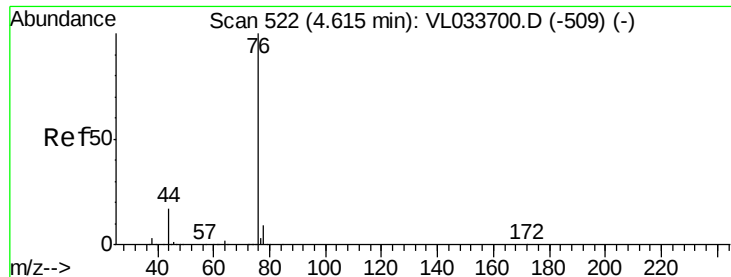
Ion 57.10 (56.80 to 57.80): VL0

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: 9.774 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

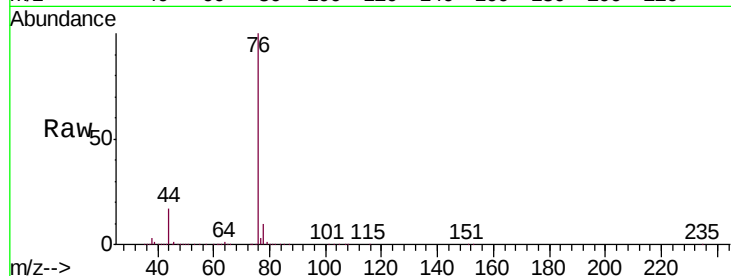
Tgt Ion: 76 Resp: 1270627

Ion Ratio Lower Upper

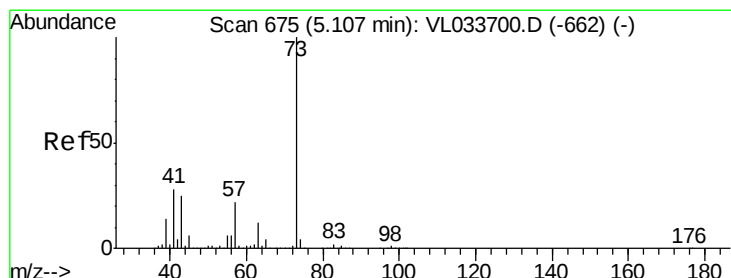
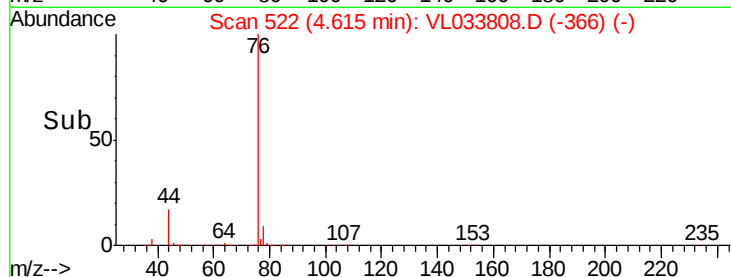
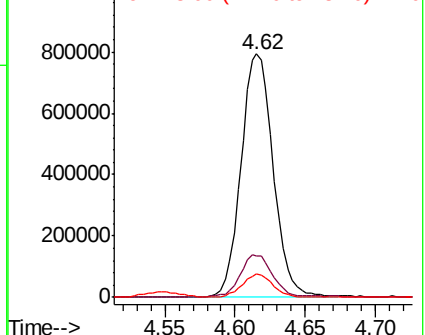
76 100

44 17.1 13.8 20.8

78 9.2 7.4 11.0



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: 11.002 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL033808.D

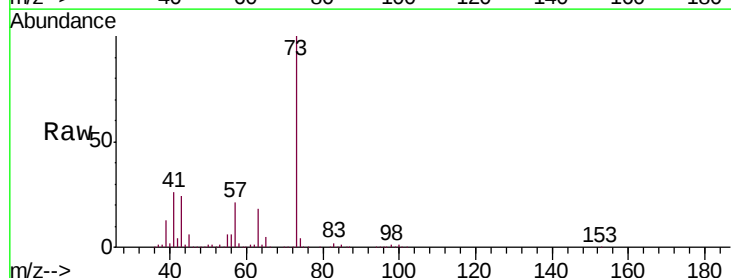
Acq: 28 May 2019 17:01

Tgt Ion: 73 Resp: 1699572

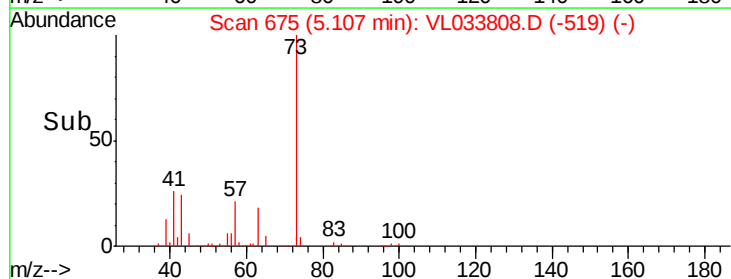
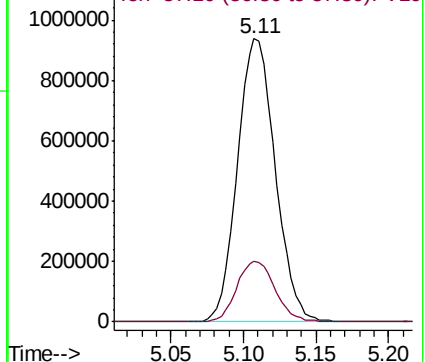
Ion Ratio Lower Upper

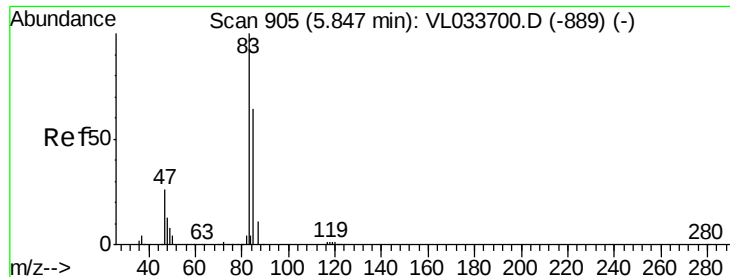
73 100

57 21.8 17.4 26.2



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

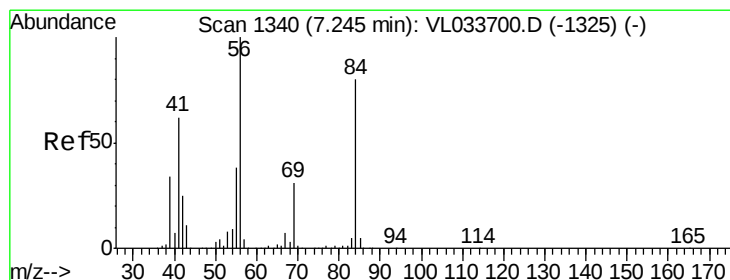
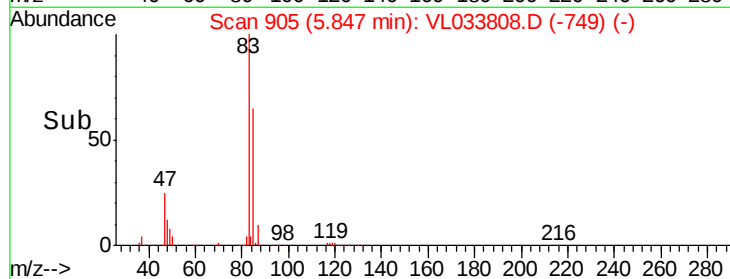
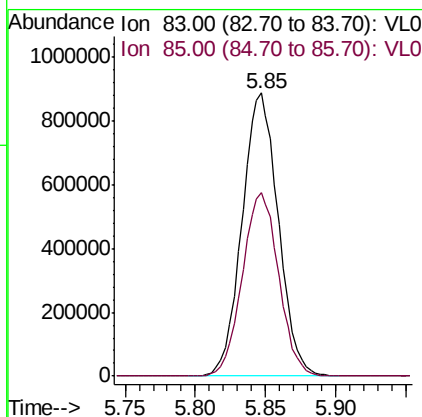
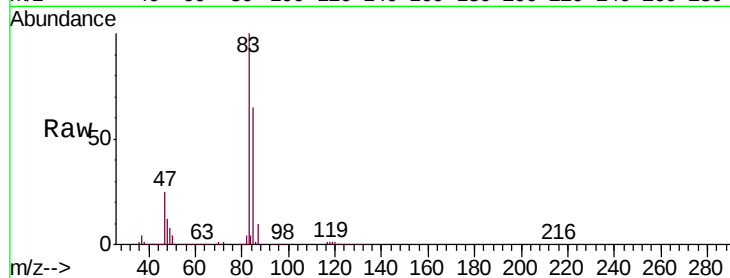




#29
Chloroform
Concen: 9.136 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

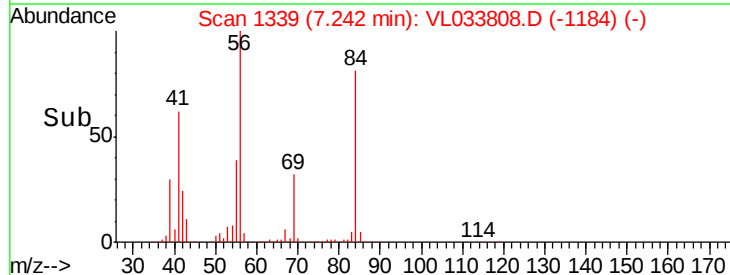
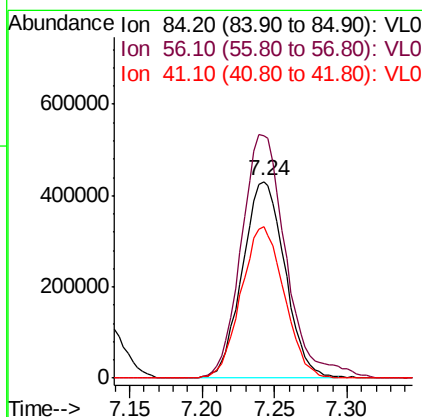
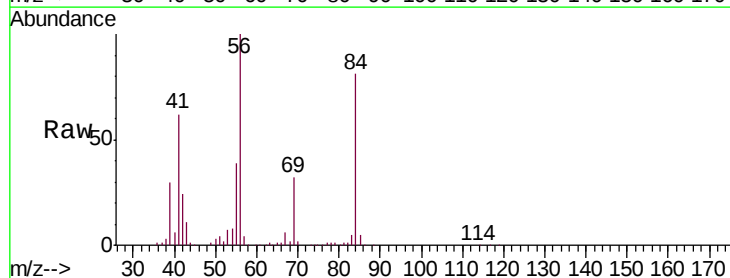
Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

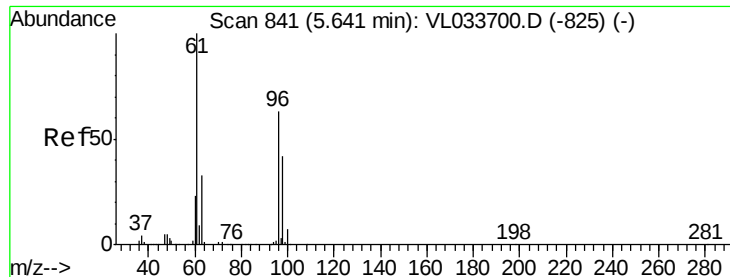
Tgt Ion: 83 Resp: 1594590
Ion Ratio Lower Upper
83 100
85 64.9 51.5 77.3



#30
Cyclohexane
Concen: 11.048 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion: 84 Resp: 880091
Ion Ratio Lower Upper
84 100
56 130.3 107.7 161.5
41 77.9 66.0 99.0



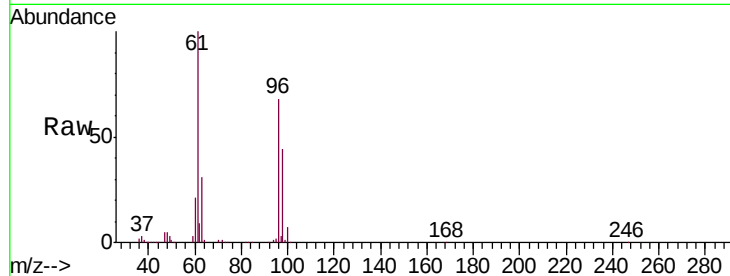


#31

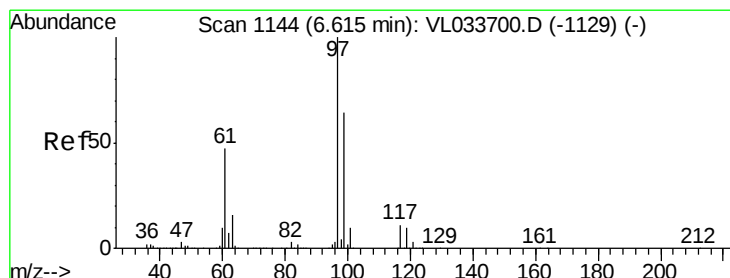
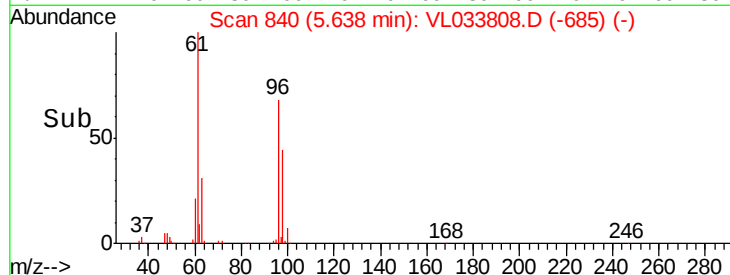
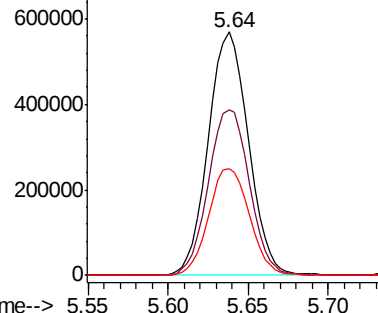
cis-1,2-Dichloroethene
 Concen: 10.345 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

Tgt Ion	Ratio	Lower	Upper
61	100		
96	67.9	50.8	76.2
98	43.5	33.3	49.9



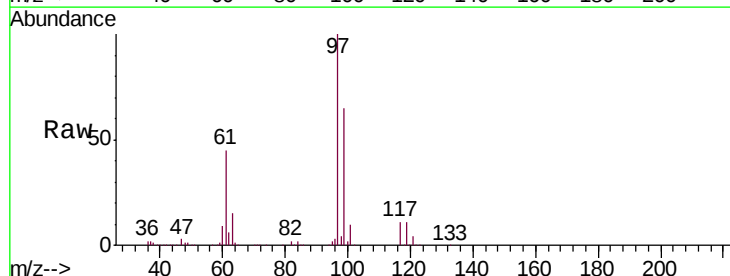
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



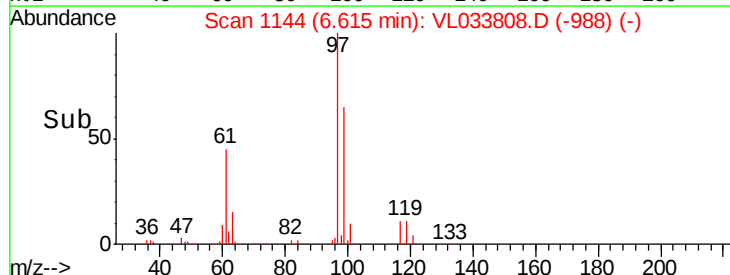
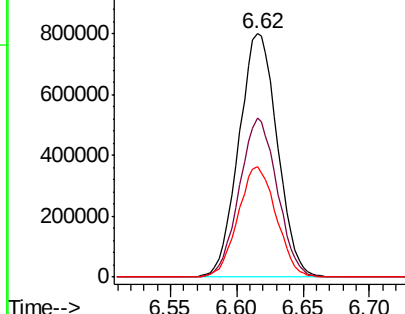
#32

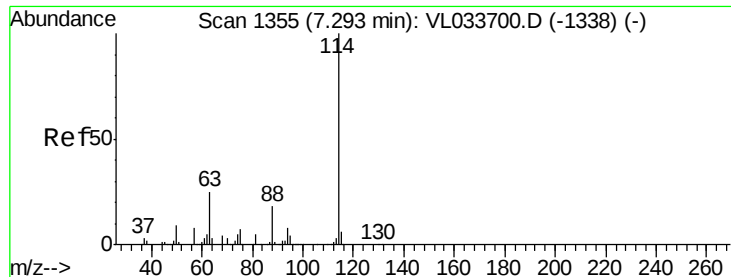
1,1,1-Trichloroethane
 Concen: 9.284 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.5	77.3
61	45.1	37.8	56.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

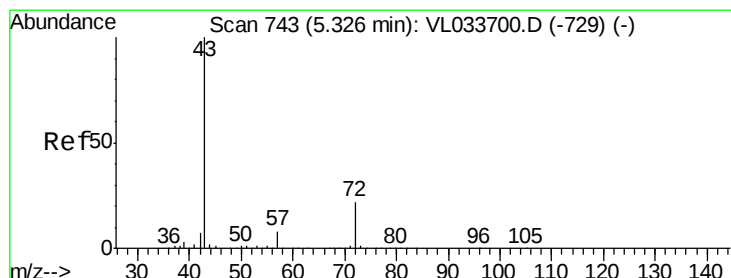
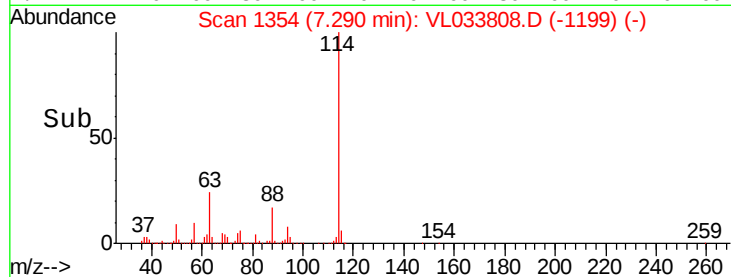
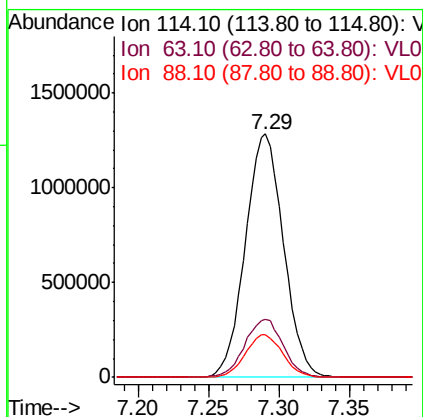
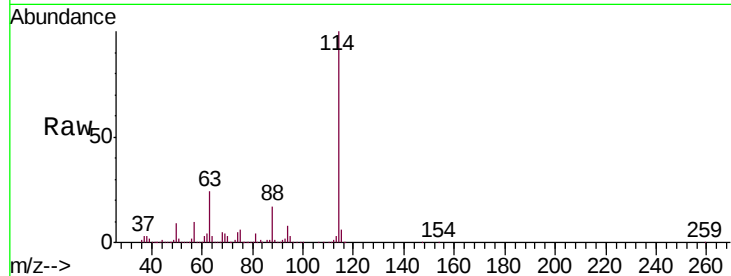




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

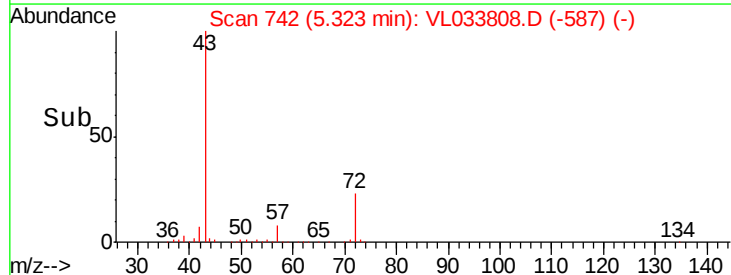
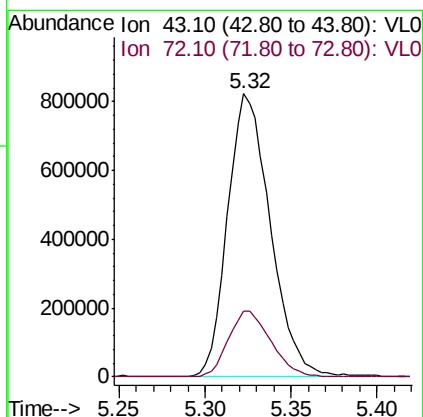
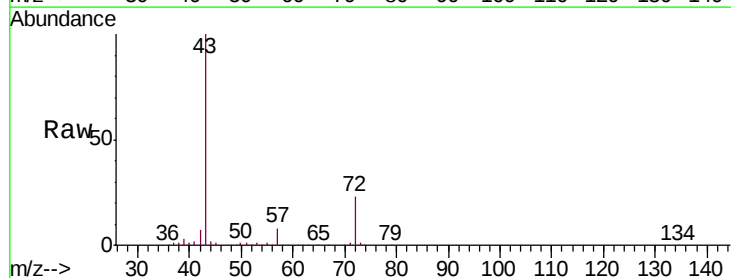
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

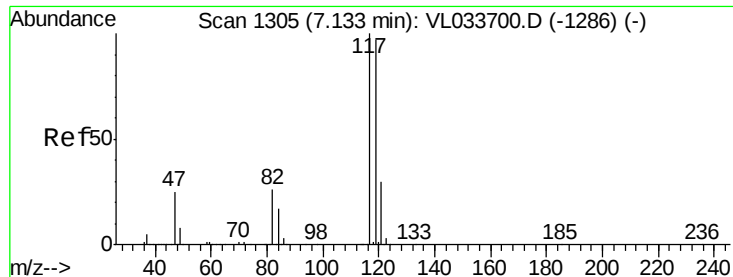
Tgt Ion: 114 Resp: 2433708
 Ion Ratio Lower Upper
 114 100
 63 24.4 20.9 31.3
 88 17.3 14.3 21.5



#34
 2-Butanone
 Concen: 9.347 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion: 43 Resp: 1410003
 Ion Ratio Lower Upper
 43 100
 72 23.4 17.8 26.6





#35

Carbon Tetrachloride

Concen: 8.779 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

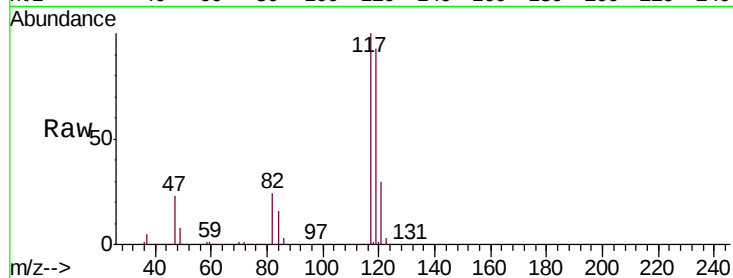
Tgt Ion:117 Resp: 1711429

Ion Ratio Lower Upper

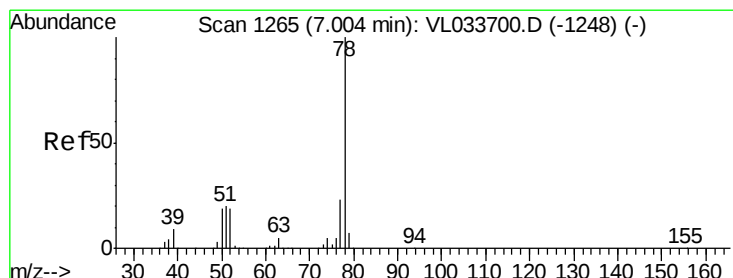
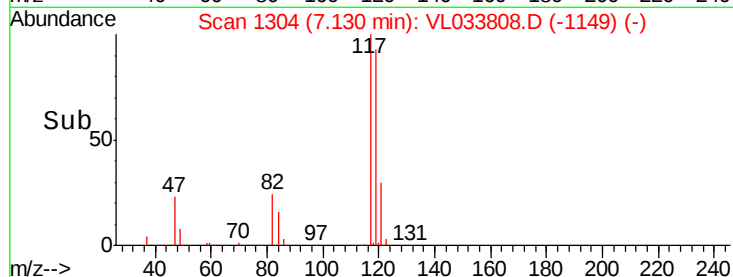
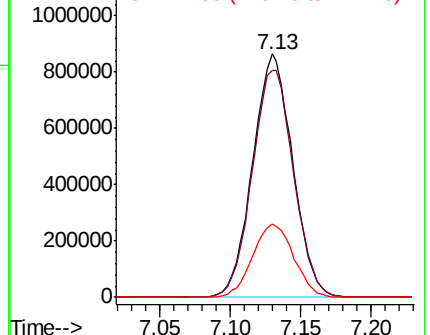
117 100

119 93.2 77.2 115.8

121 30.3 24.1 36.1



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: 9.347 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

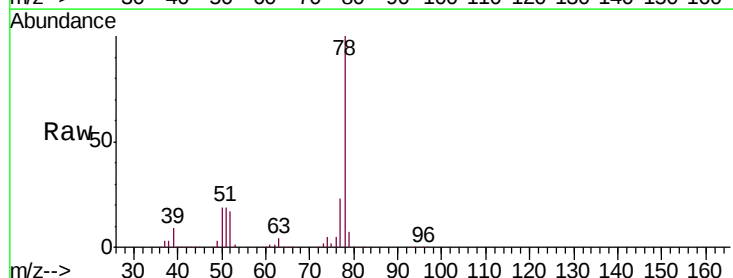
Tgt Ion: 78 Resp: 2069336

Ion Ratio Lower Upper

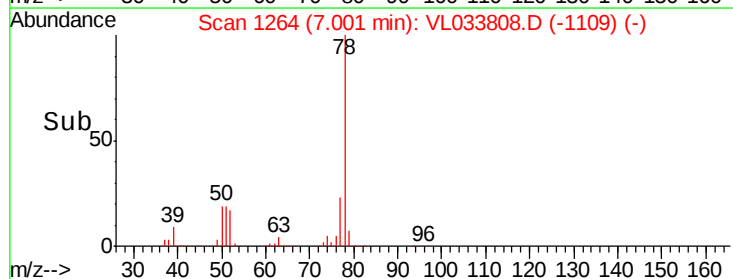
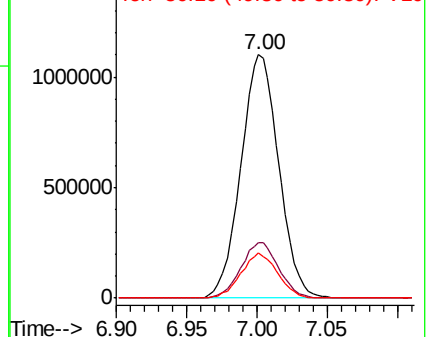
78 100

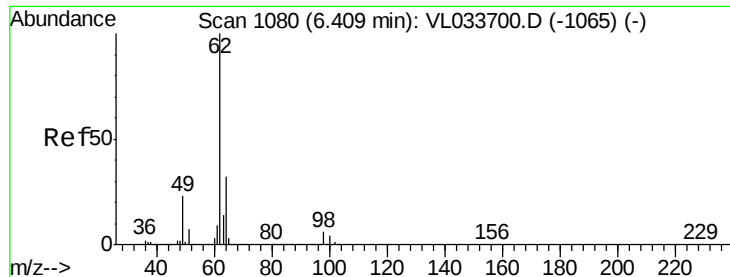
77 23.0 18.4 27.6

50 18.6 15.5 23.3



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: 8.092 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

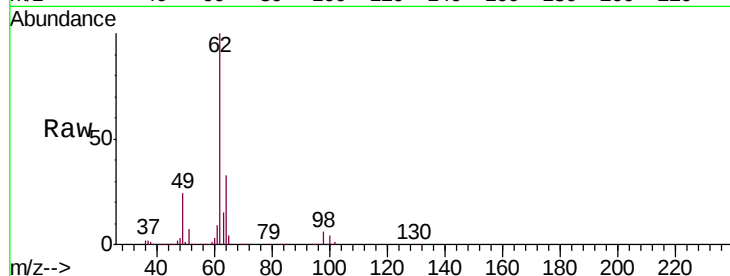
VL0528ABS01DUP

Tgt Ion: 62 Resp: 1155621

Ion Ratio Lower Upper

62 100

98 6.3 4.5 6.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.41

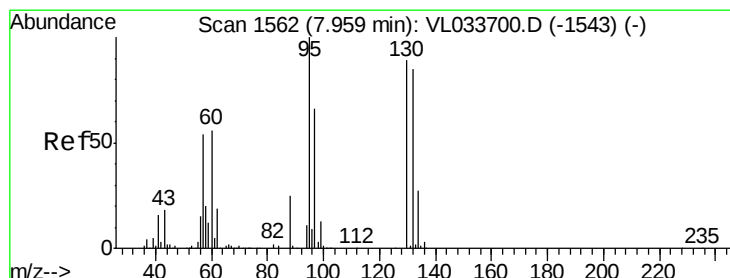
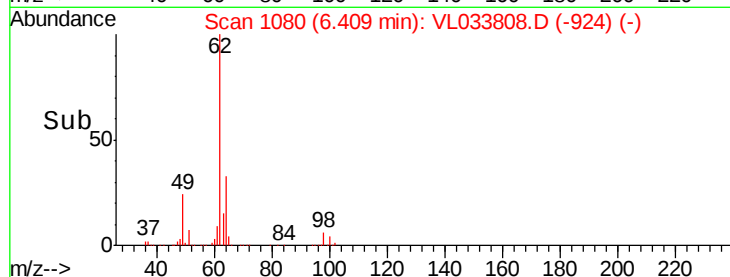
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 10.514 ppbv

RT: 7.96 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Tgt Ion: 130 Resp: 863739

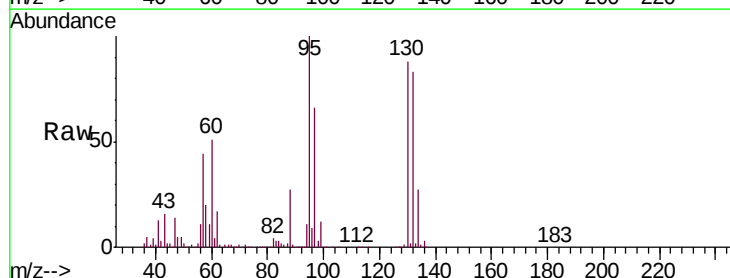
Ion Ratio Lower Upper

130 100

95 113.1 90.2 135.4

132 94.4 76.4 114.6

97 74.3 59.8 89.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

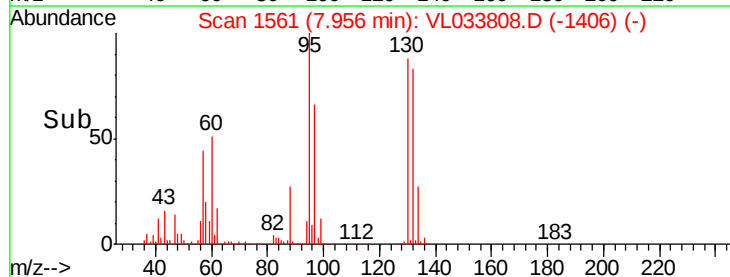
600000

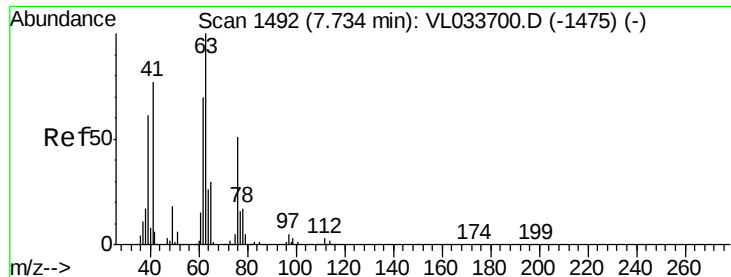
400000

200000

0

Time-->

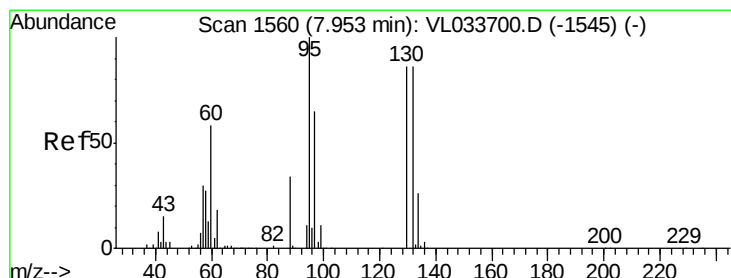
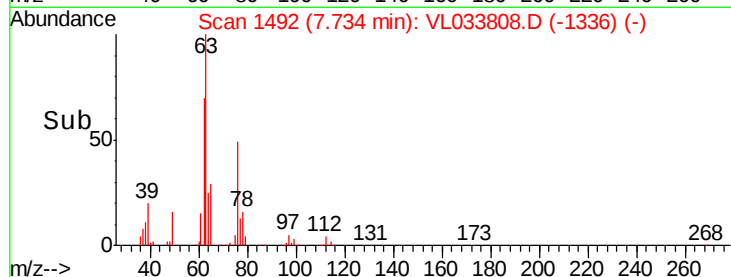
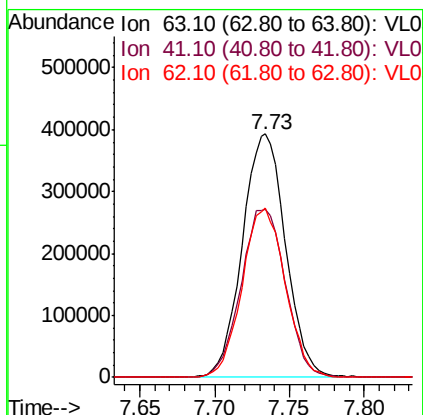
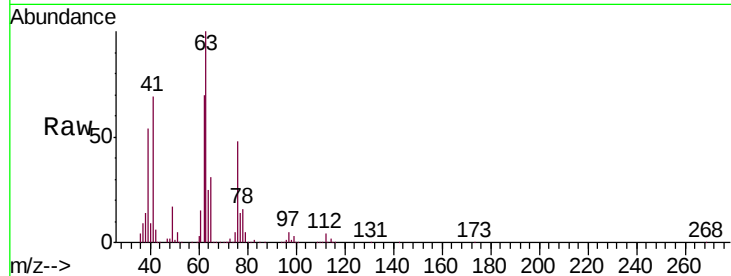




#39
 1,2-Dichloropropane
 Concen: 9.561 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

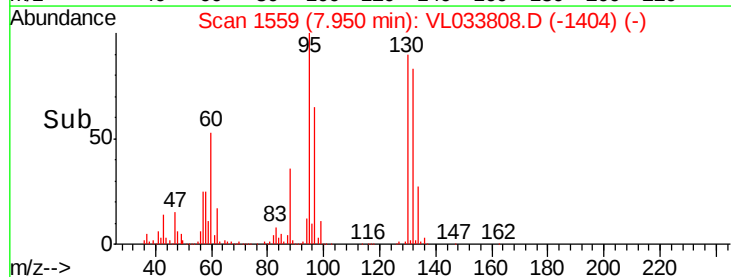
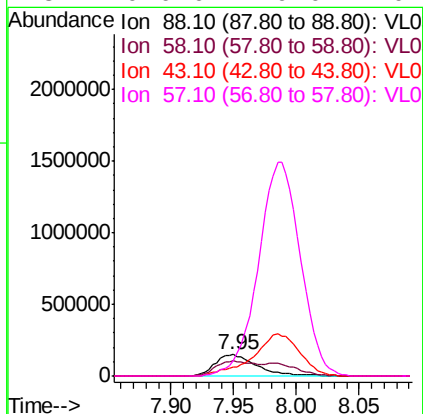
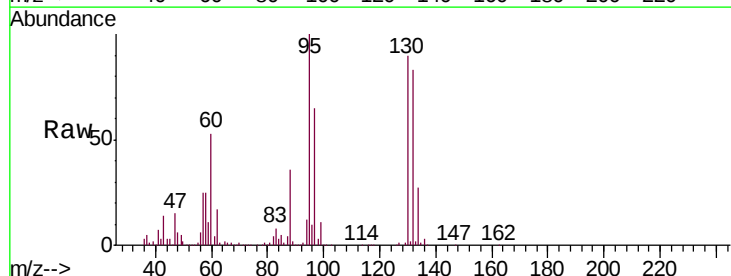
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

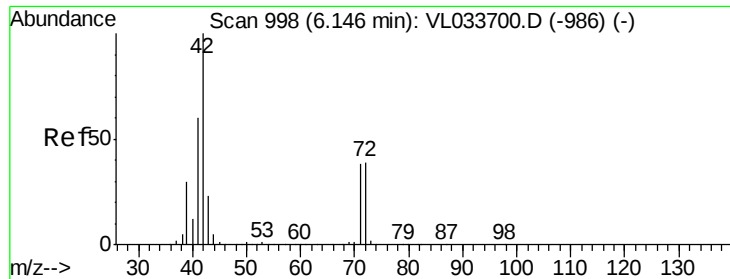
Tgt Ion: 63 Resp: 789173
 Ion Ratio Lower Upper
 63 100
 41 69.1 61.5 92.3
 62 69.4 56.2 84.4



#40
 1,4-Dioxane
 Concen: 9.714 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion: 88 Resp: 335399
 Ion Ratio Lower Upper
 88 100
 58 118.1 101.8 152.6
 43 225.9 0.0 0.0#
 57 1040.0 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.645 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

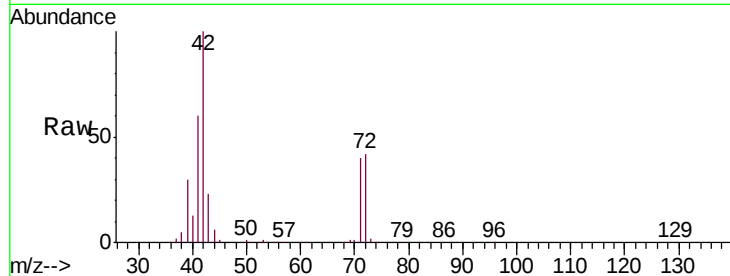
Tgt Ion: 42 Resp: 815175

Ion Ratio Lower Upper

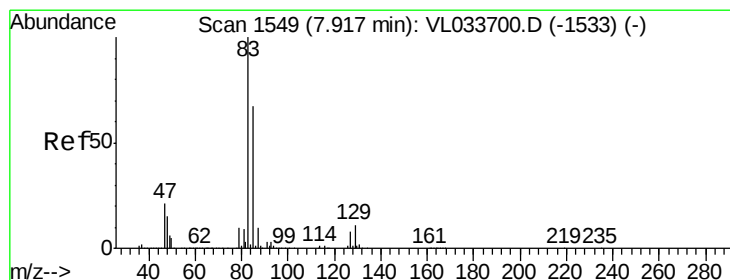
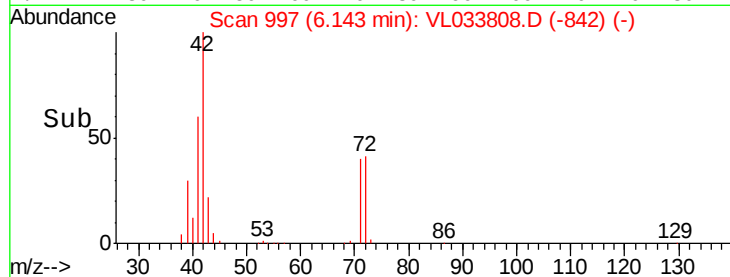
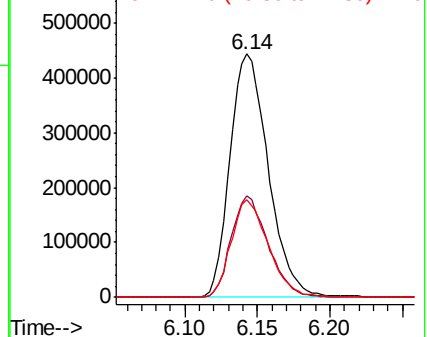
42 100

72 40.3 32.0 48.0

71 39.0 30.4 45.6



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: 9.109 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

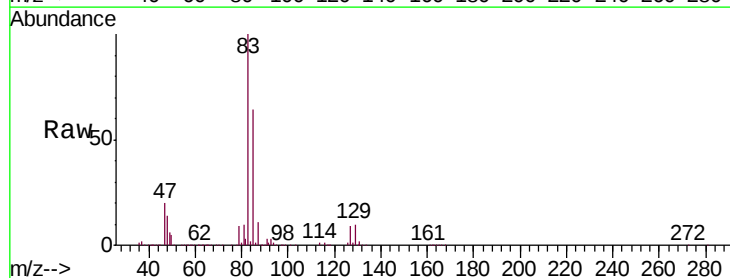
Tgt Ion: 83 Resp: 1780921

Ion Ratio Lower Upper

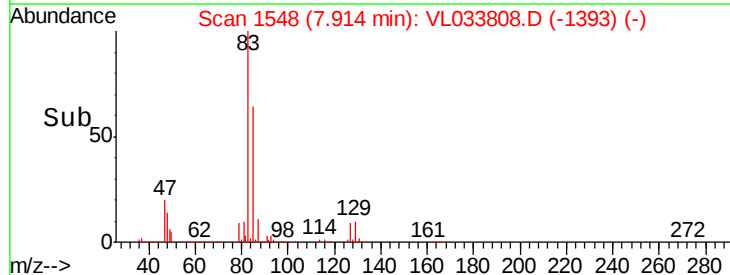
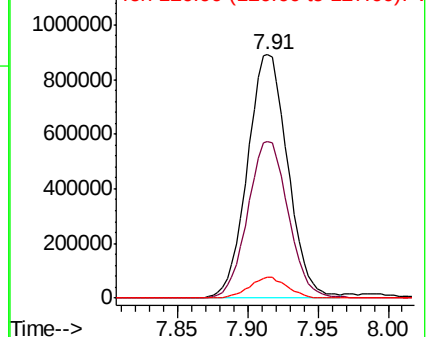
83 100

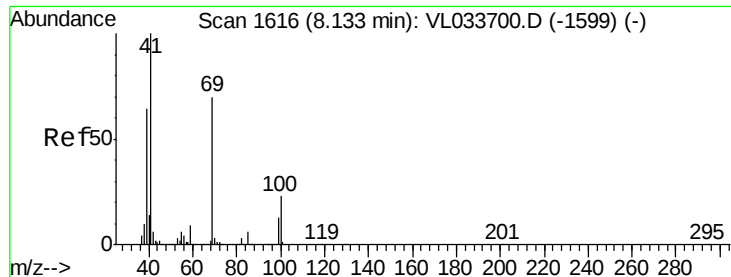
85 64.3 53.3 79.9

127 8.7 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

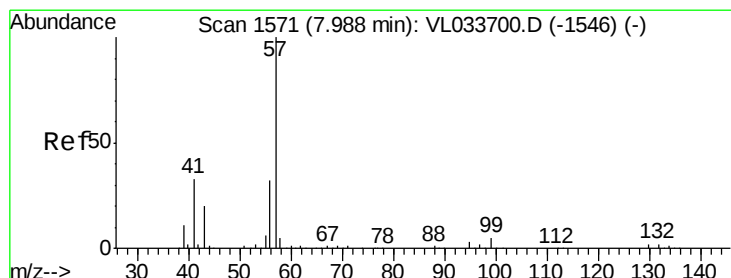
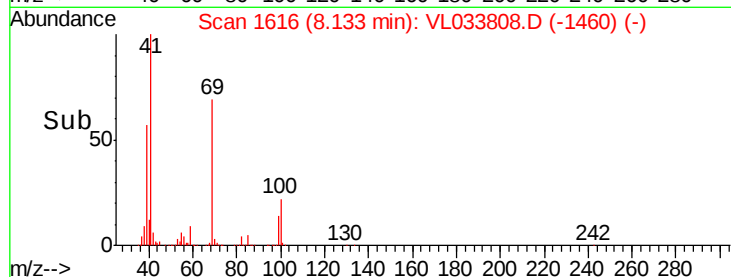
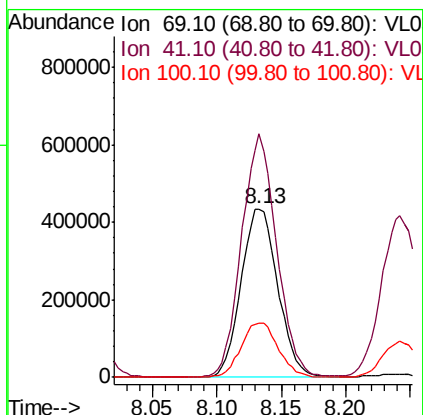
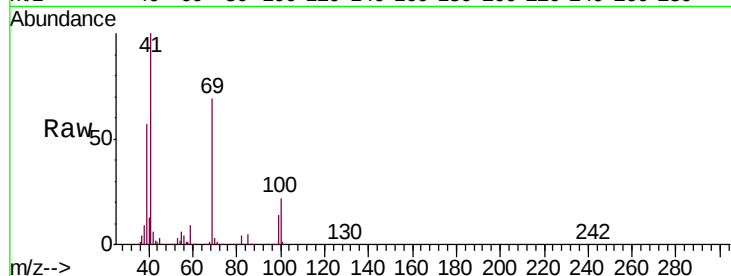




#43
Methyl Methacrylate
Concen: 10.609 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

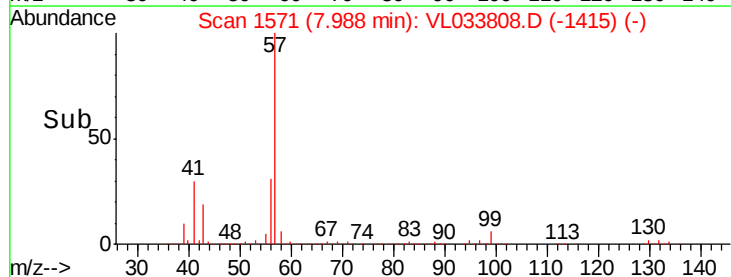
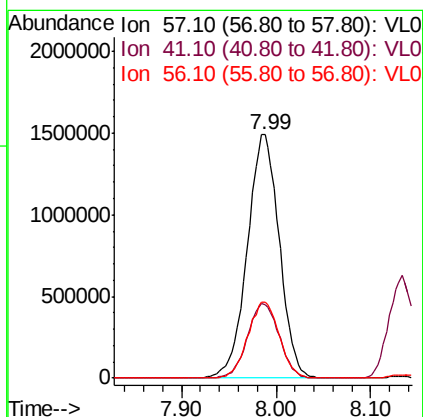
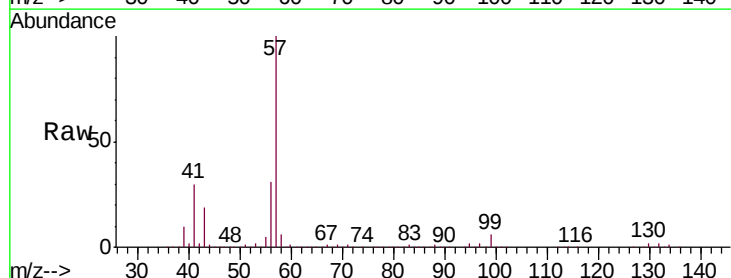
Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

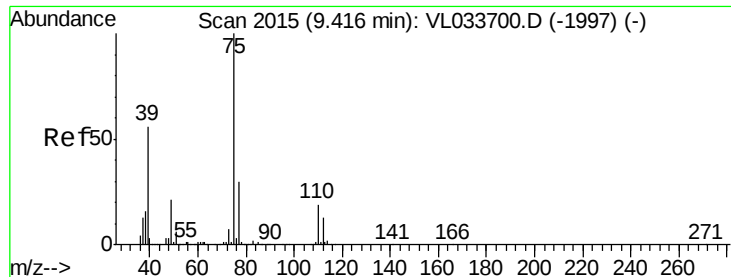
Tgt Ion: 69 Resp: 864304
Ion Ratio Lower Upper
69 100
41 138.0 116.3 174.5
100 32.6 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 9.323 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion: 57 Resp: 3488329
Ion Ratio Lower Upper
57 100
41 30.5 25.4 38.0
56 30.8 24.7 37.1





#45

t-1,3-Dichloropropene

Concen: 10.541 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

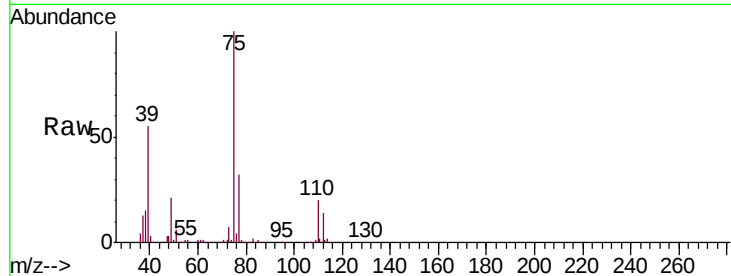
VL0528ABS01DUP

Tgt Ion: 75 Resp: 1088762

Ion Ratio Lower Upper

75 100

77 31.6 24.4 36.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

500000

400000

300000

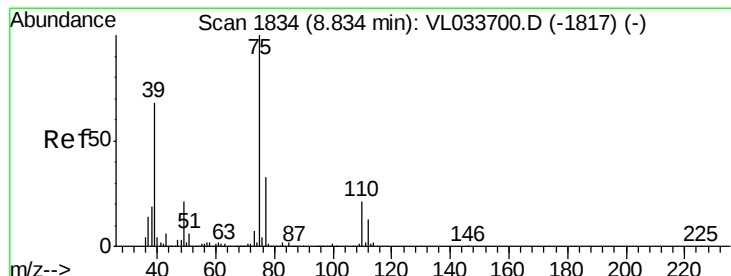
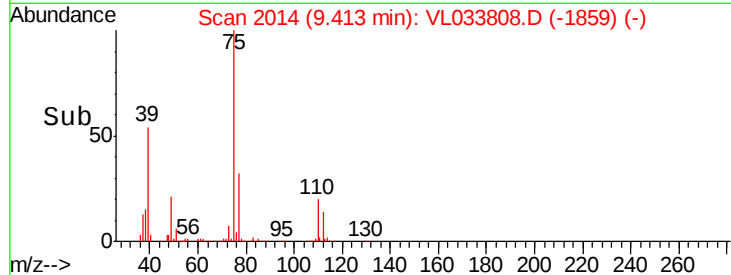
200000

100000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.239 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

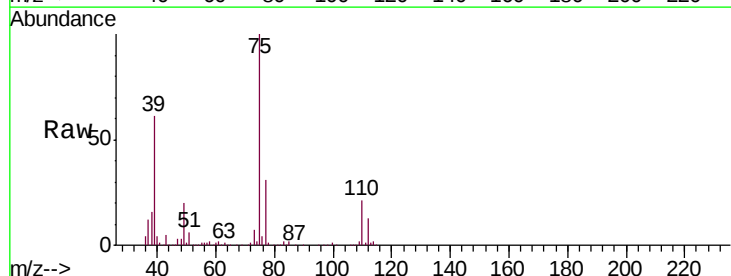
Tgt Ion: 75 Resp: 1238292

Ion Ratio Lower Upper

75 100

39 61.2 54.4 81.6

77 30.7 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

600000

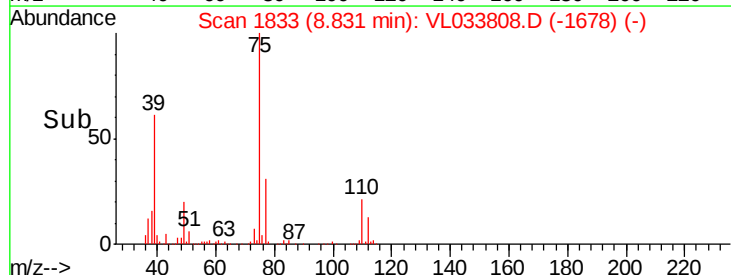
400000

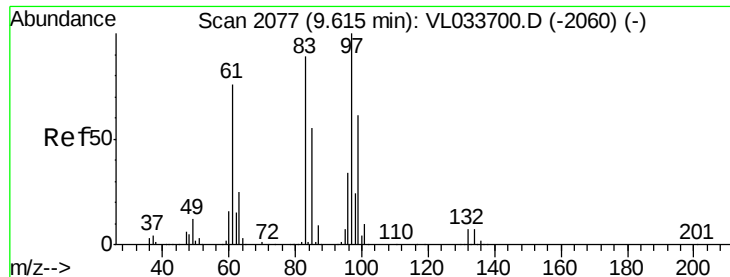
200000

0

8.75 8.80 8.85 8.90

Time-->

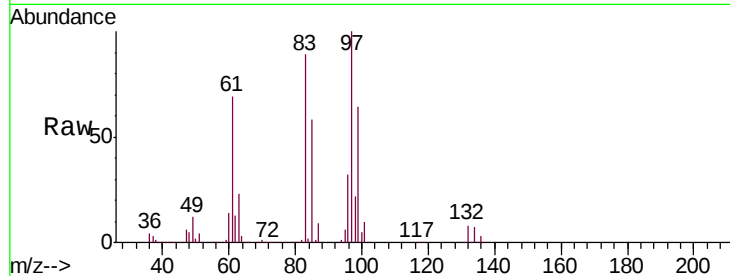




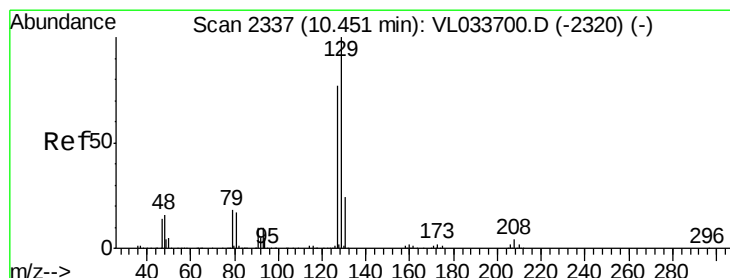
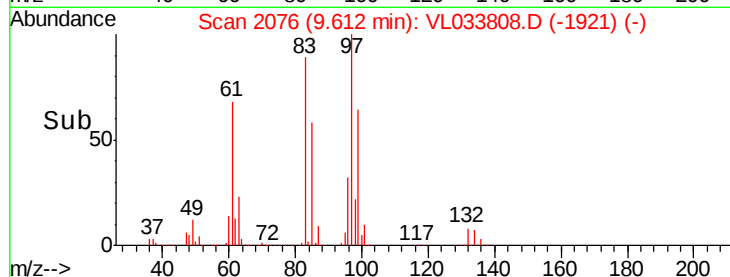
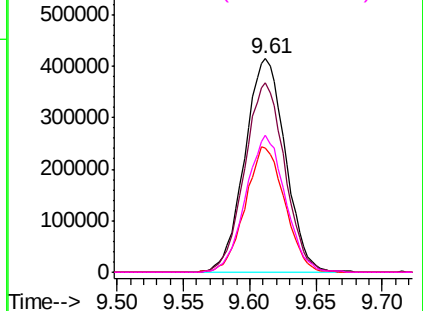
#47
 1,1,2-Trichloroethane
 Concen: 9.402 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

Tgt Ion: 97 Resp: 881550
 Ion Ratio Lower Upper
 97 100
 83 89.0 70.8 106.2
 85 58.2 43.7 65.5
 99 64.1 48.7 73.1

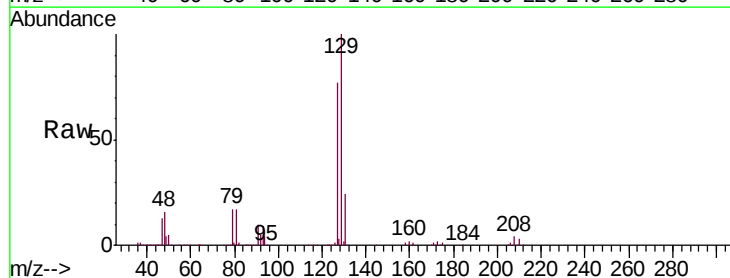


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

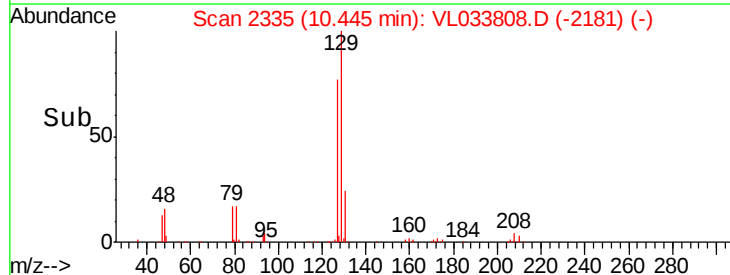
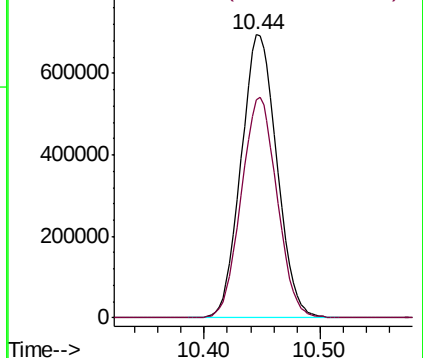


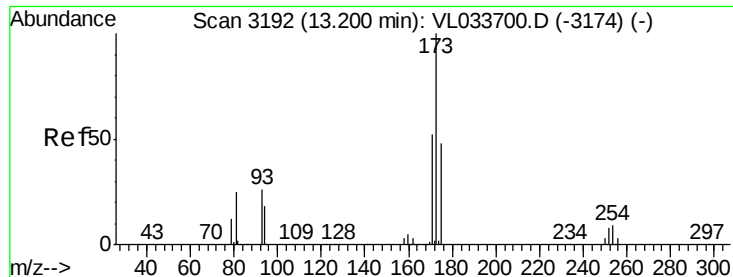
#48
 Dibromochloromethane
 Concen: 9.200 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion: 129 Resp: 1494757
 Ion Ratio Lower Upper
 129 100
 127 78.0 38.6 116.0



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





#49

Bromoform

Concen: 10.061 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

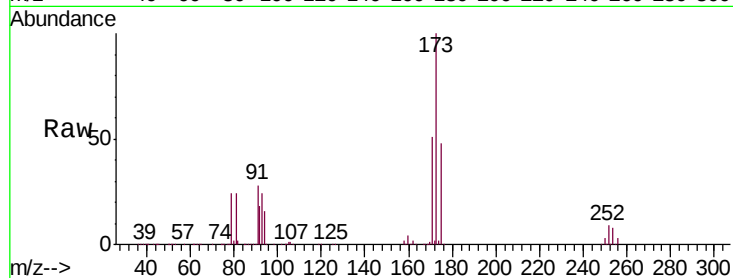
Tgt Ion:173 Resp: 1375343

Ion Ratio Lower Upper

173 100

175 49.5 38.6 58.0

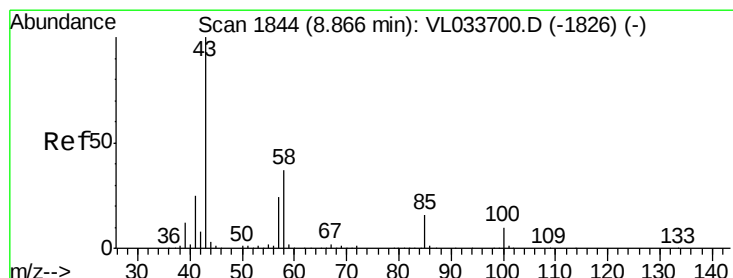
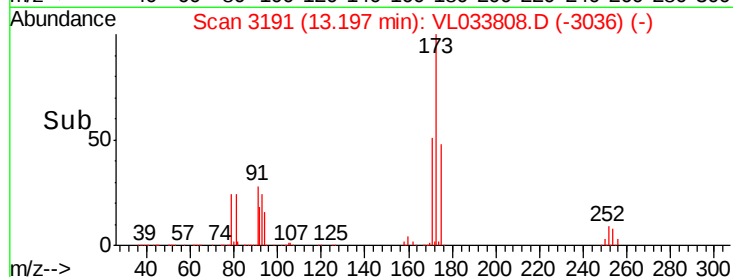
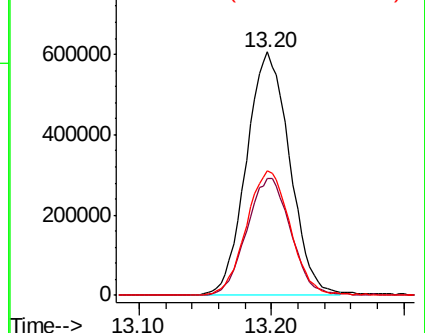
171 52.4 41.5 62.3



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: 9.119 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VL033808.D

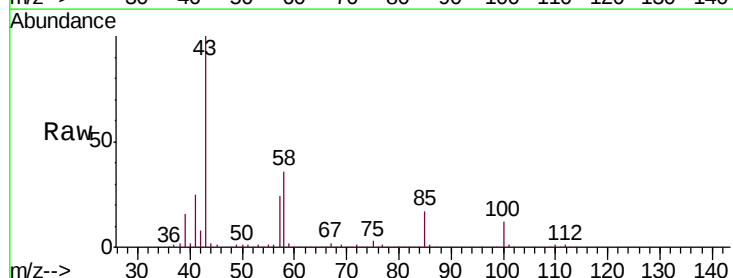
Acq: 28 May 2019 17:01

Tgt Ion: 43 Resp: 2115898

Ion Ratio Lower Upper

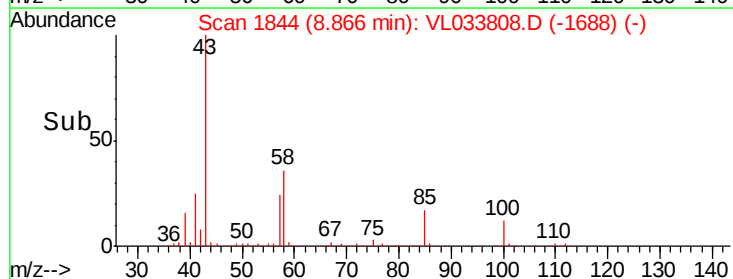
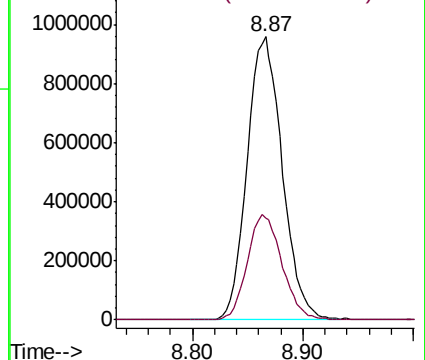
43 100

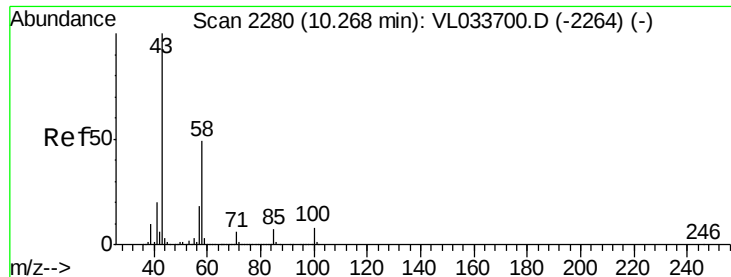
58 36.6 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.654 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

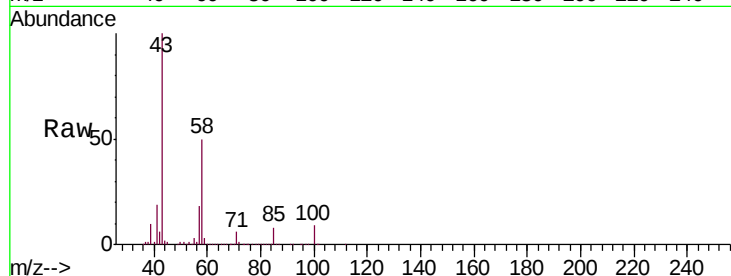
Tgt Ion: 43 Resp: 1748327

Ion Ratio Lower Upper

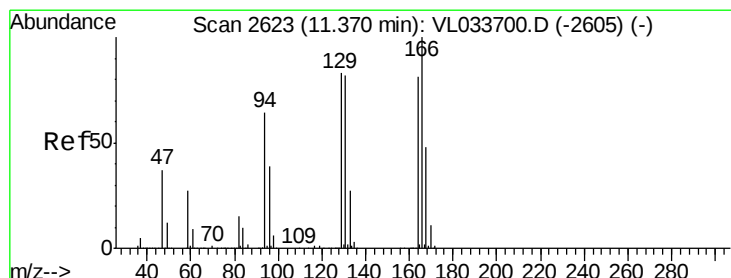
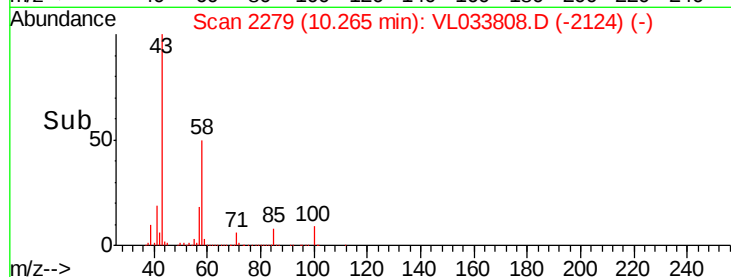
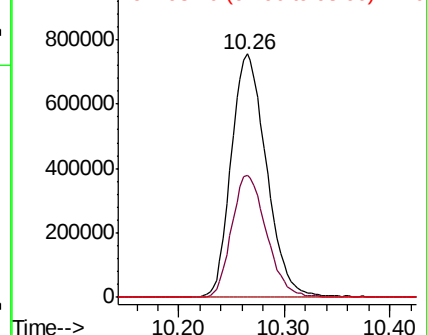
43 100

58 49.6 38.7 58.1

98 0.1 0.2 0.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.234 ppbv

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Tgt Ion: 164 Resp: 796426

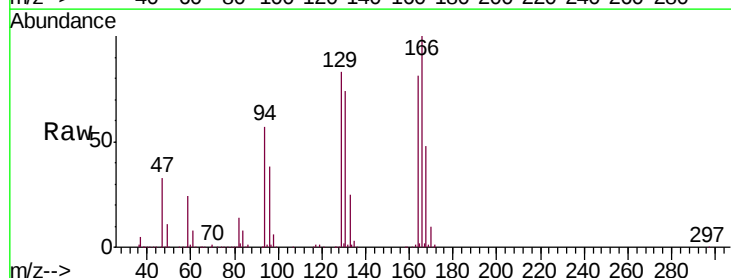
Ion Ratio Lower Upper

164 100

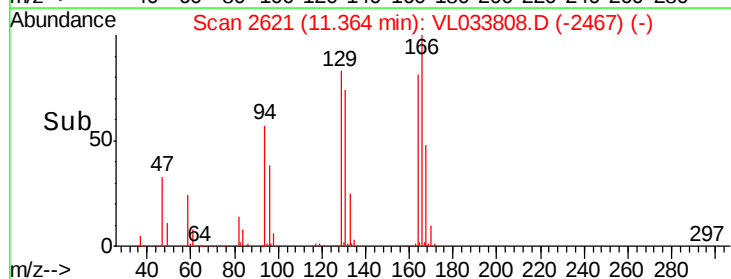
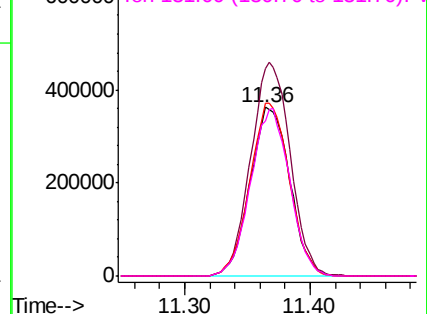
166 122.8 98.9 148.3

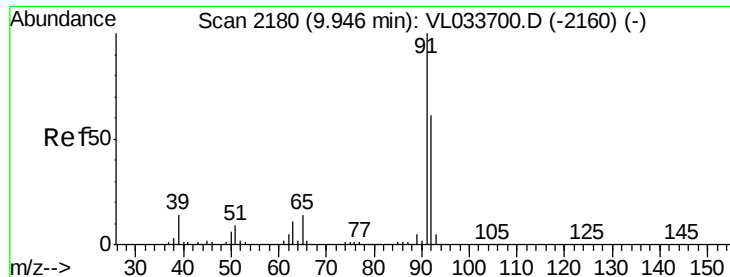
129 102.0 81.8 122.6

131 91.5 81.1 121.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.220 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

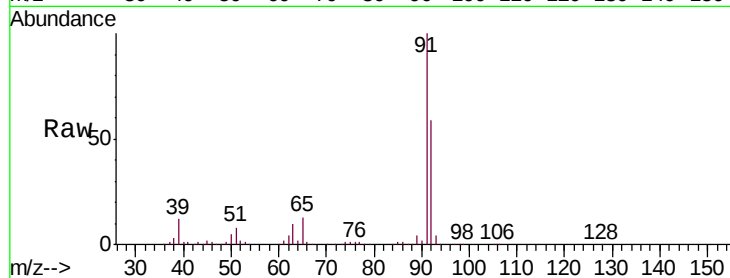
VL0528ABS01DUP

Tgt Ion: 91 Resp: 2440418

Ion Ratio Lower Upper

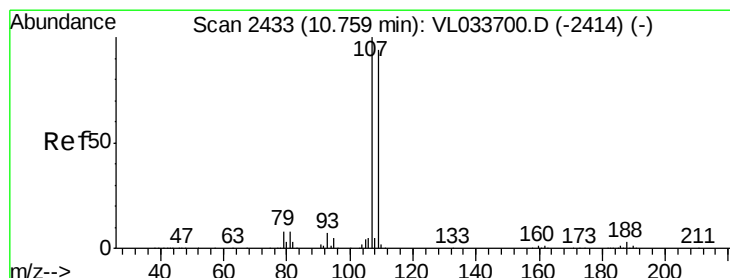
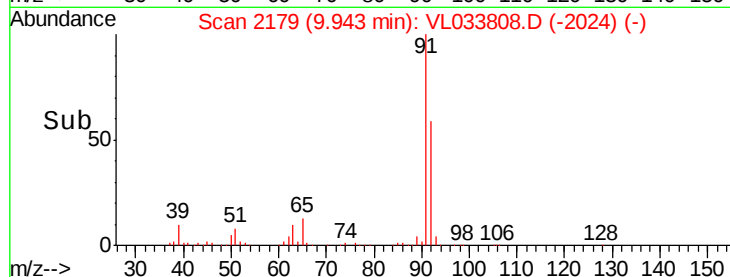
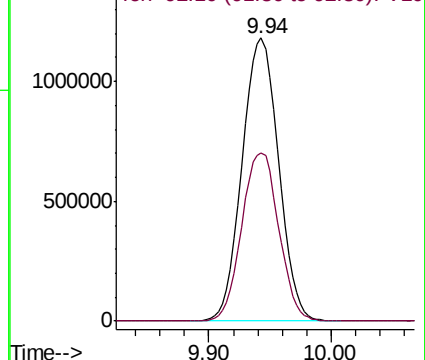
91 100

92 60.4 47.6 71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.564 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033808.D

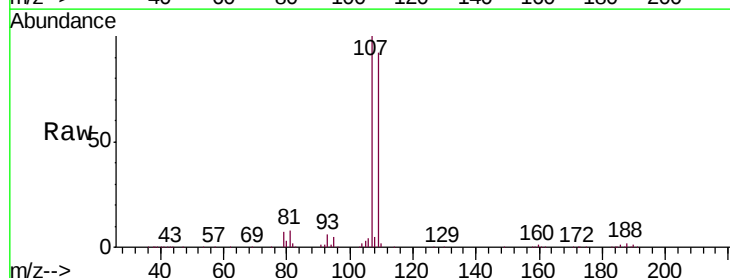
Acq: 28 May 2019 17:01

Tgt Ion: 107 Resp: 1368469

Ion Ratio Lower Upper

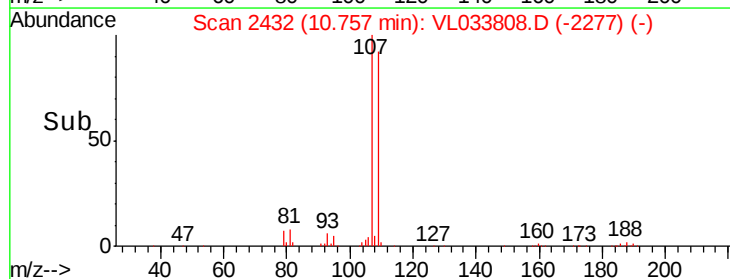
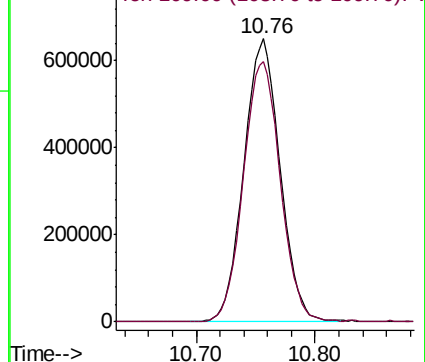
107 100

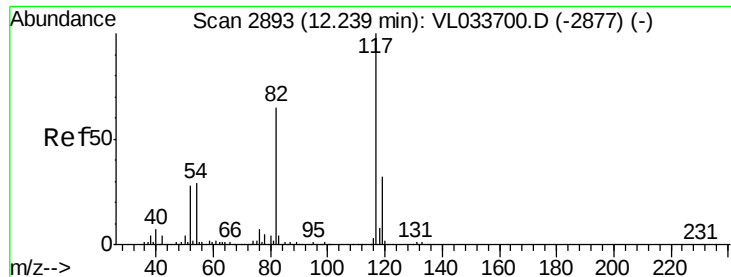
109 91.9 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

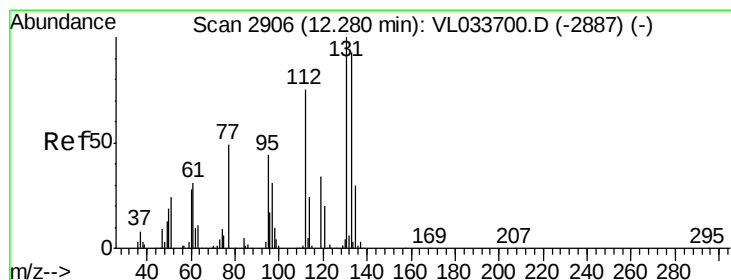
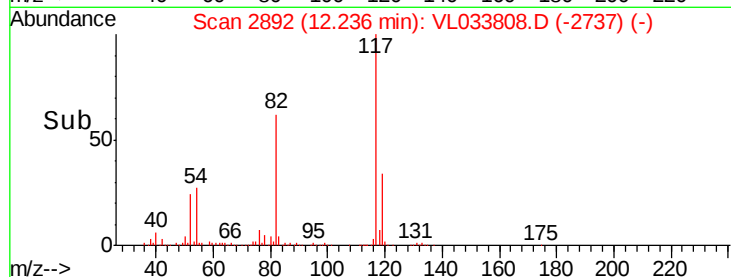
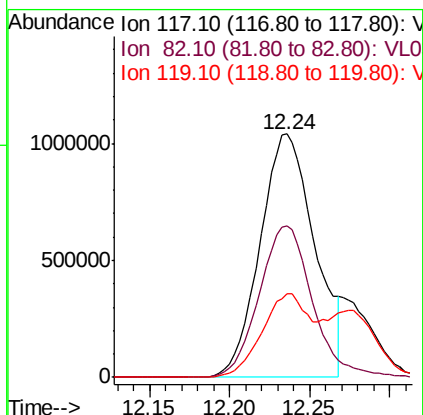
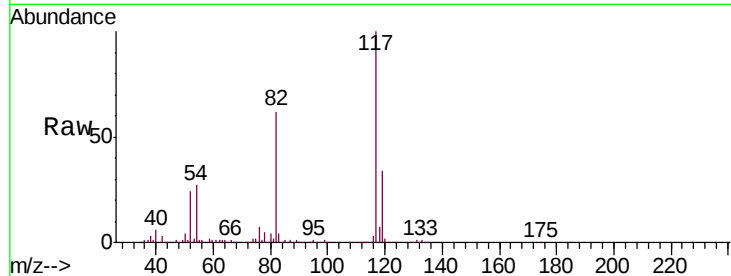




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

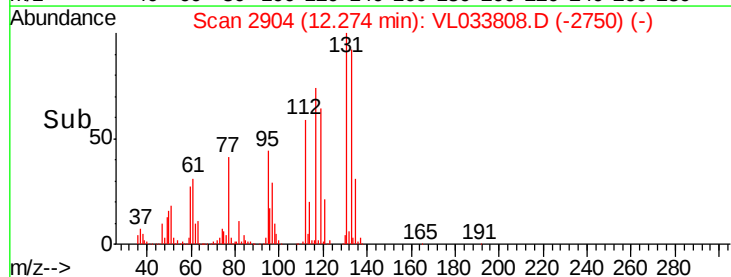
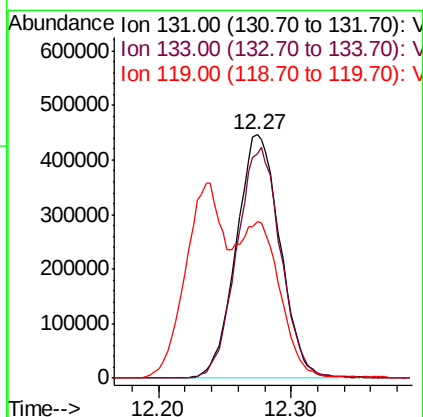
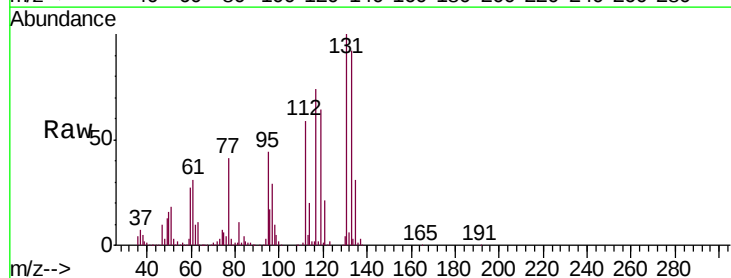
Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

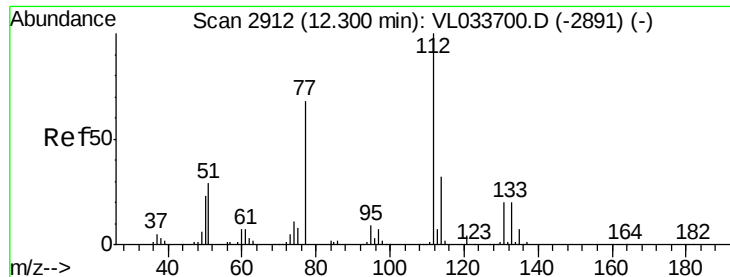
Tgt Ion:117 Resp: 2468082
Ion Ratio Lower Upper
117 100
82 60.8 49.4 74.0
119 30.3 24.9 37.3



#56
1,1,1,2-Tetrachloroethane
Concen: 8.957 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion:131 Resp: 1022934
Ion Ratio Lower Upper
131 100
133 95.6 76.6 114.8
119 52.9 49.0 73.4

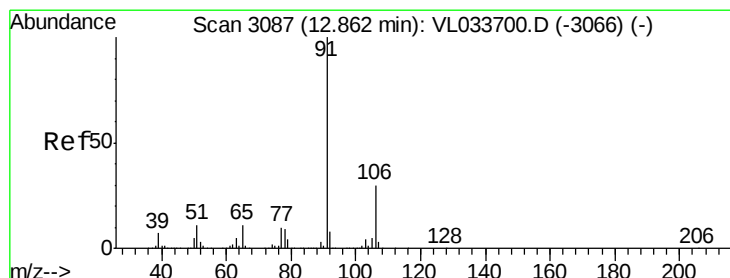
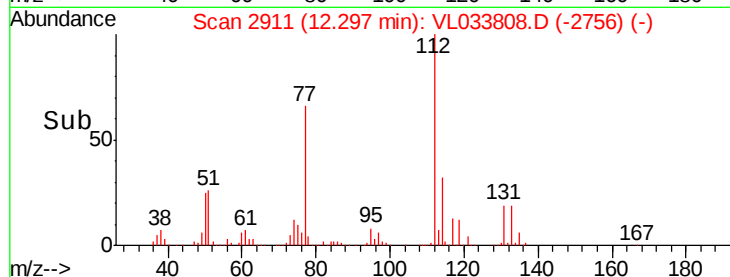
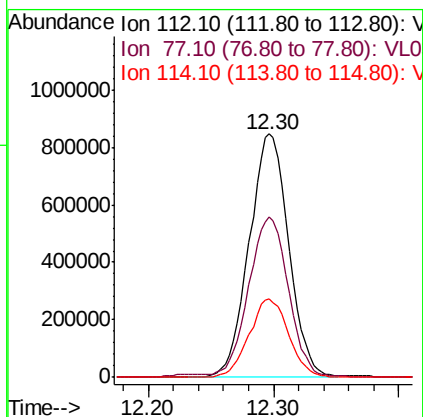
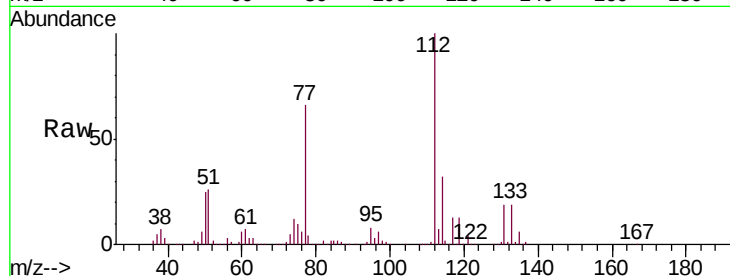




#57
Chlorobenzene
Concen: 9.099 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

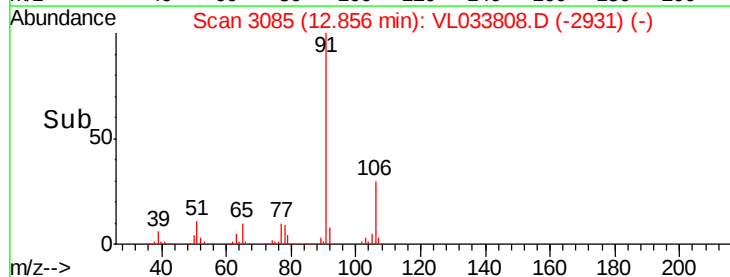
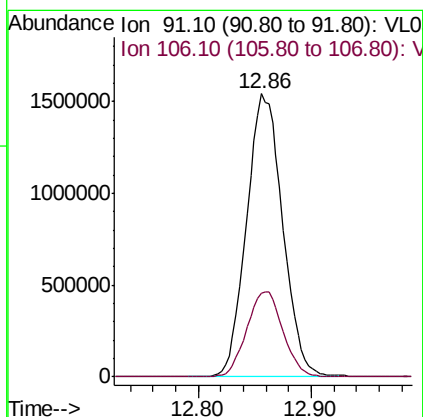
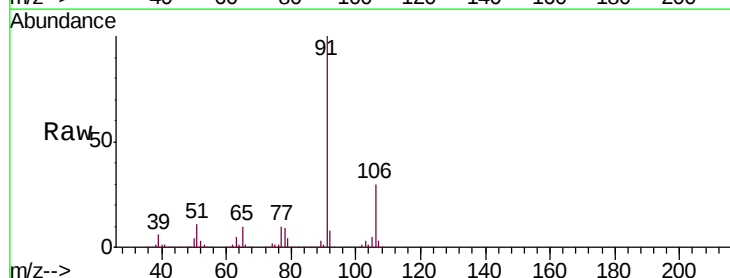
Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

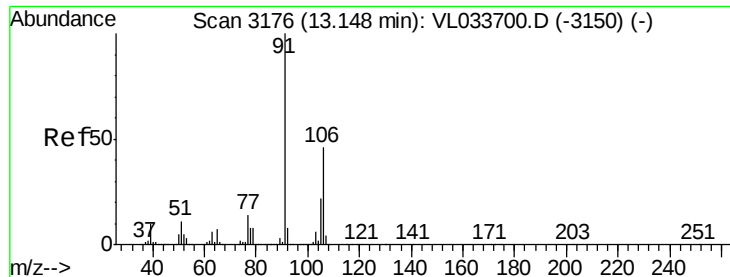
Tgt Ion:112 Resp: 1848474
Ion Ratio Lower Upper
112 100
77 65.4 55.4 83.0
114 32.1 29.3 35.8



#58
Ethyl Benzene
Concen: 10.456 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion: 91 Resp: 3417339
Ion Ratio Lower Upper
91 100
106 29.7 23.9 35.9

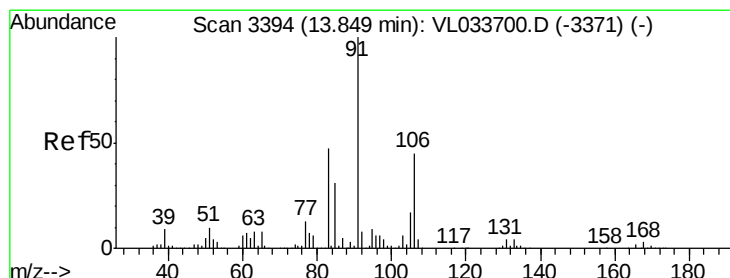
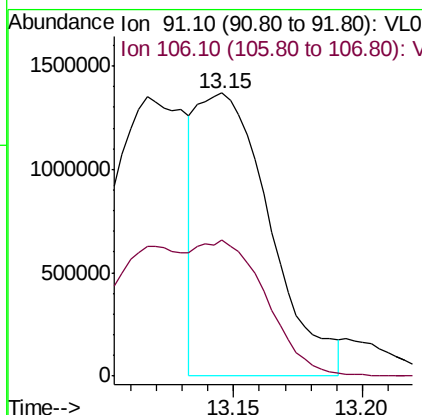
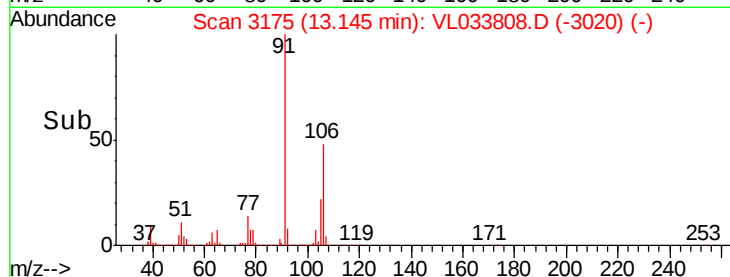
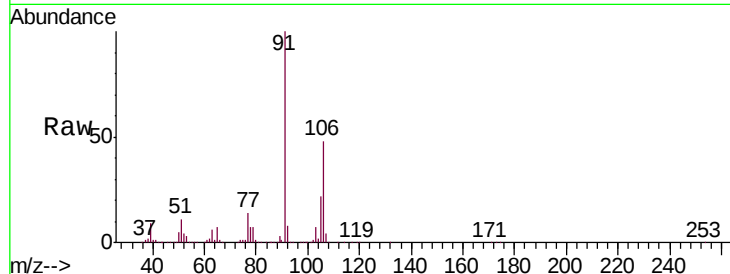




#59
m/p-Xylene
Concen: 9.374 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

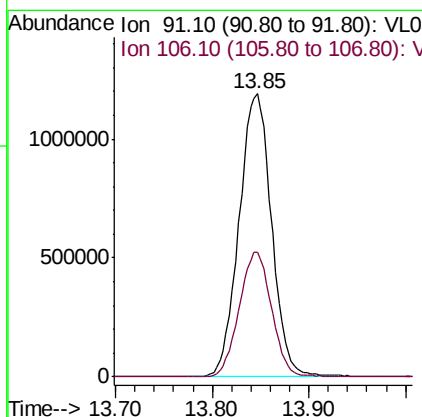
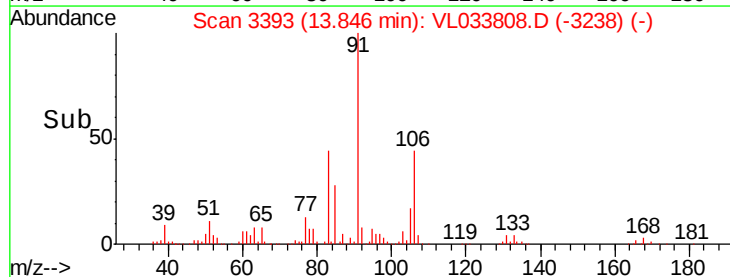
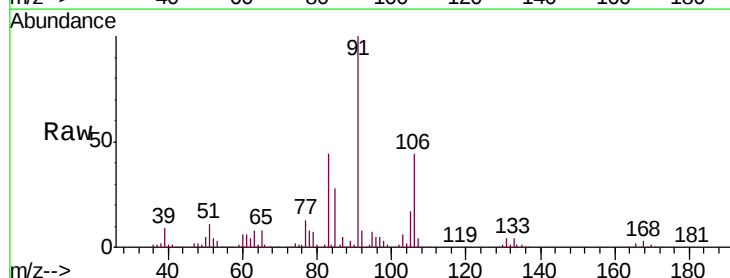
Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

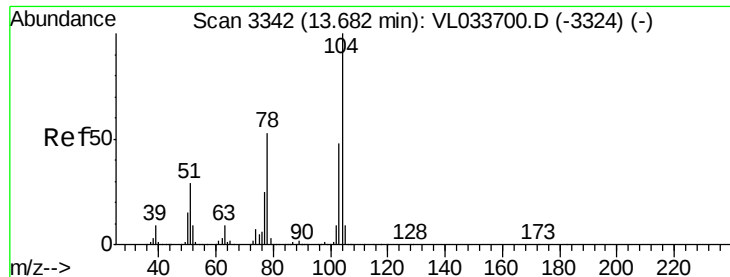
Tgt Ion: 91 Resp: 2678135
Ion Ratio Lower Upper
91 100
106 96.1 35.8 53.6#



#60
o-Xylene
Concen: 9.645 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion: 91 Resp: 2777907
Ion Ratio Lower Upper
91 100
106 44.3 21.6 64.8





#61

Styrene

Concen: 11.095 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

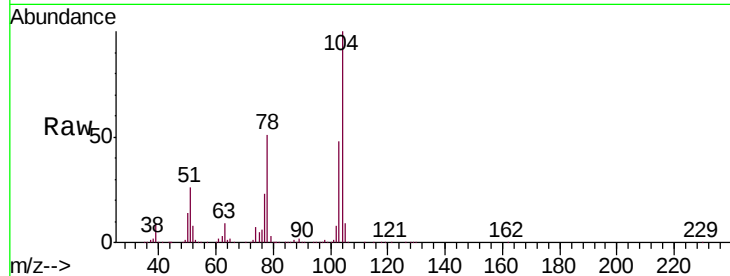
Tgt Ion:104 Resp: 2151350

Ion Ratio Lower Upper

104 100

78 50.5 42.6 64.0

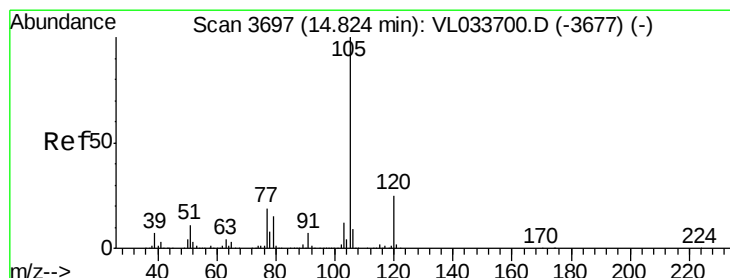
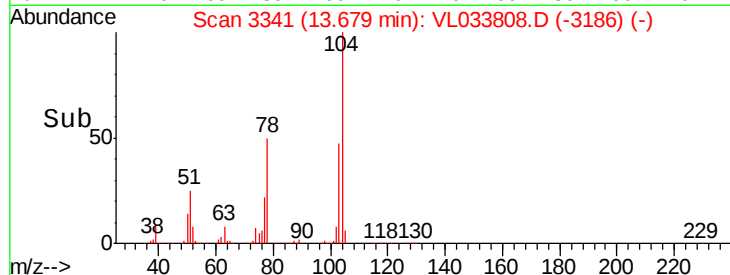
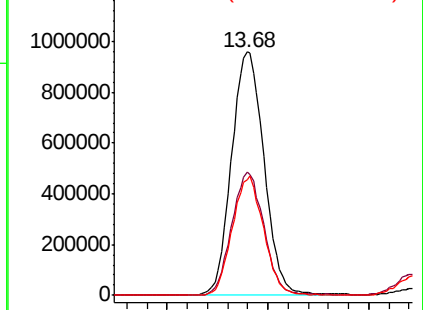
103 47.5 37.8 56.6



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: 9.770 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033808.D

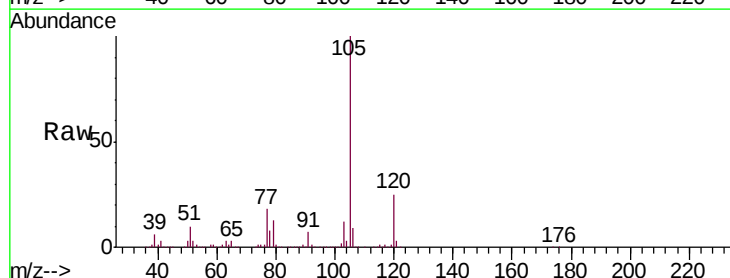
Acq: 28 May 2019 17:01

Tgt Ion:105 Resp: 3789552

Ion Ratio Lower Upper

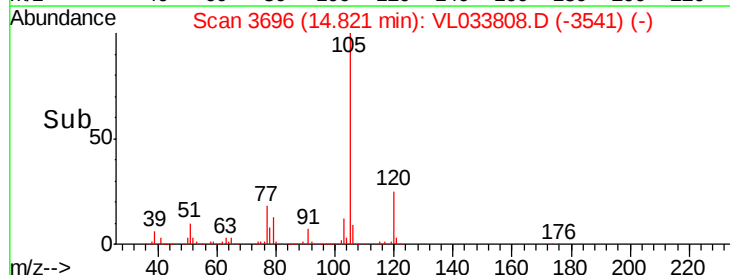
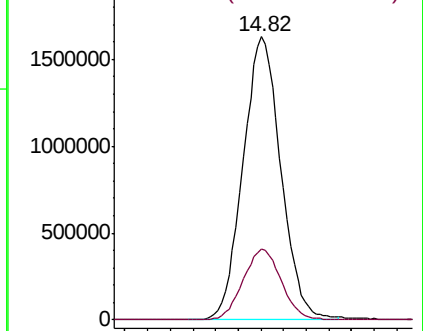
105 100

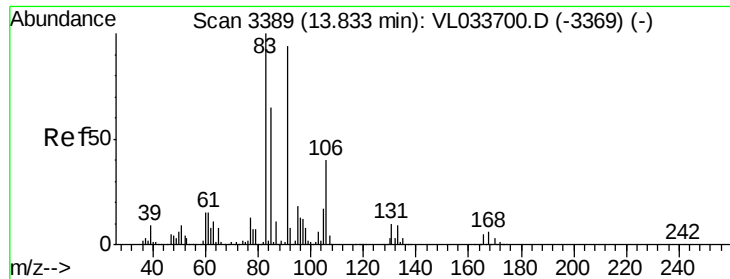
120 25.4 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

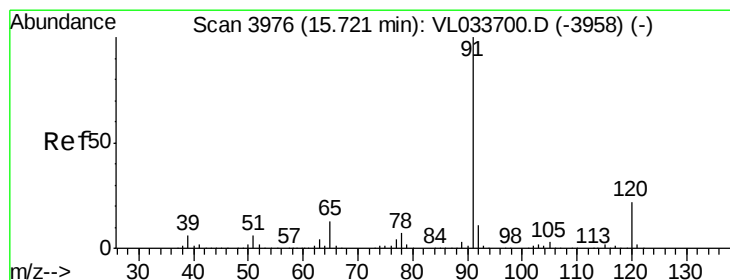
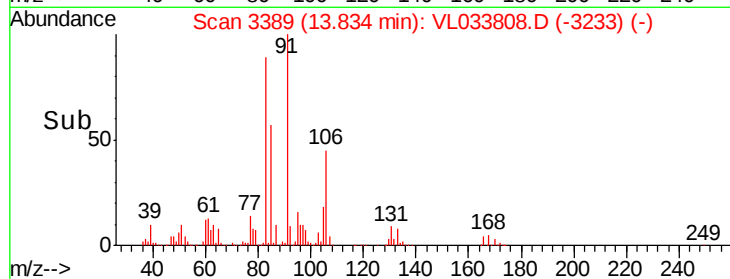
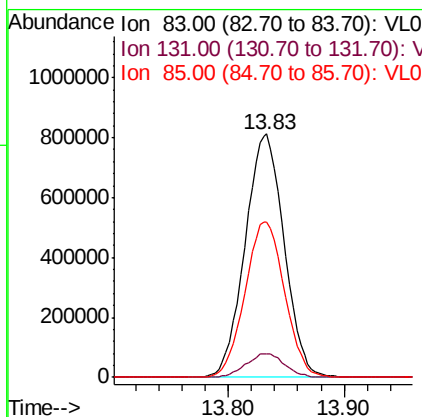
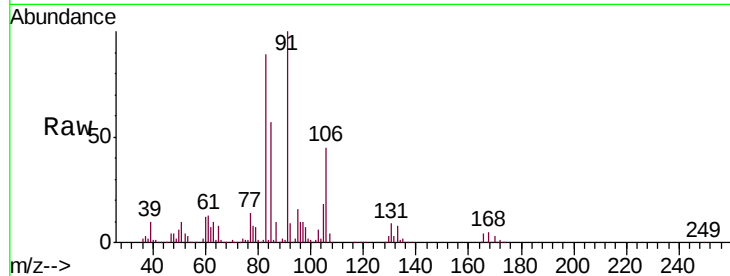




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.069 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

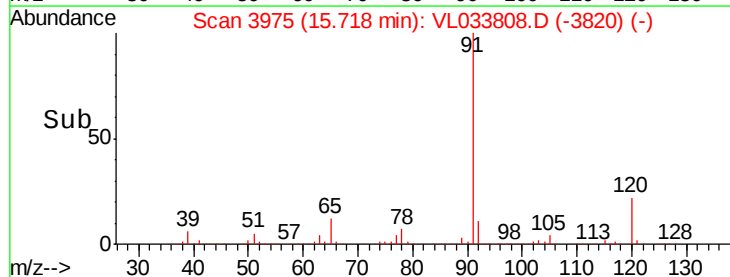
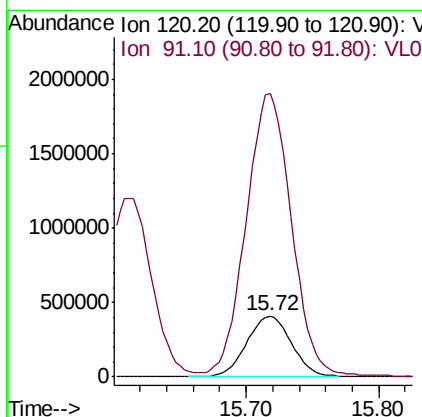
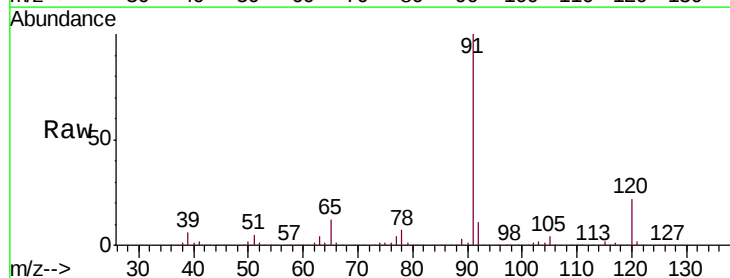
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

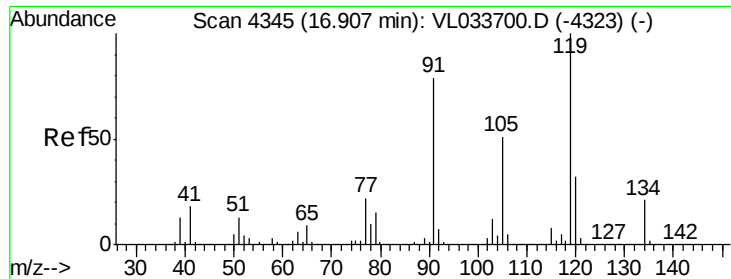
Tgt Ion: 83 Resp: 1899545
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.3
 85 64.9 32.3 96.9



#64
 n-propylbenzene
 Concen: 9.590 ppbv
 RT: 15.72 min Scan# 3975
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion: 120 Resp: 962097
 Ion Ratio Lower Upper
 120 100
 91 476.3 379.1 568.7

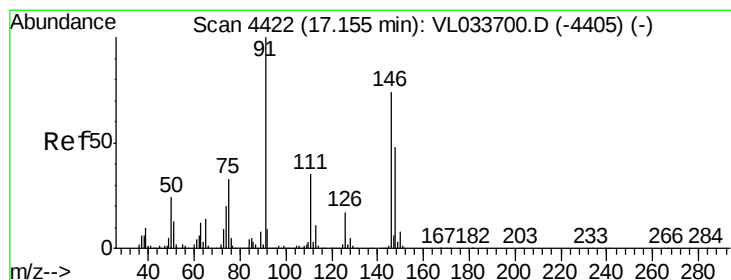
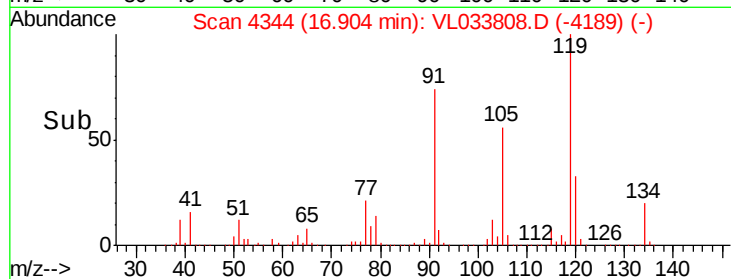
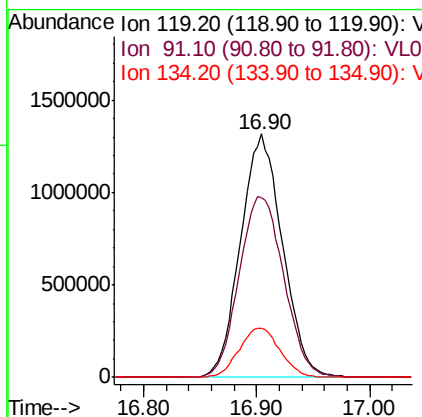
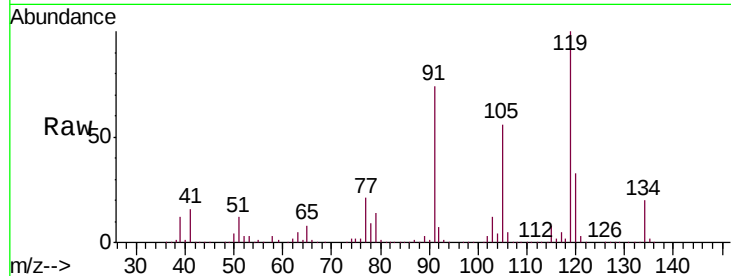




#65
 tert-Butylbenzene
 Concen: 9.571 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

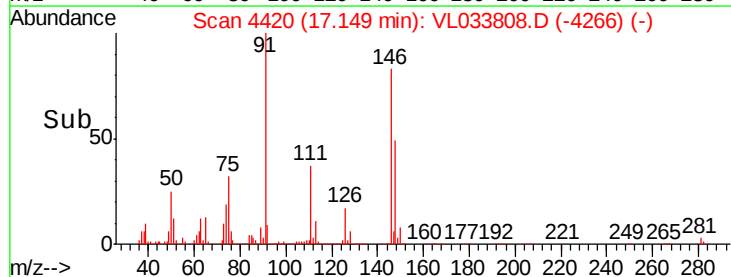
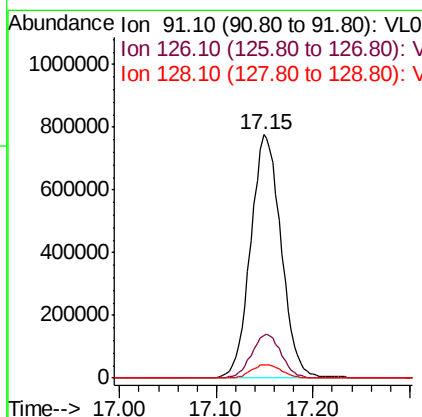
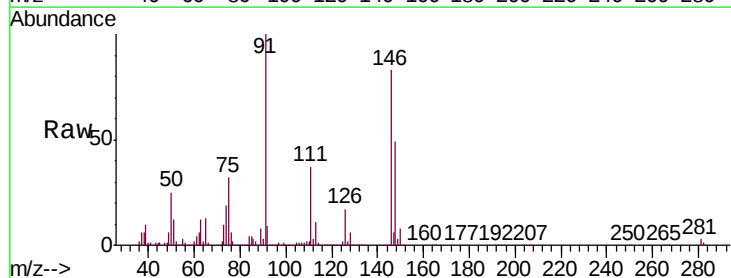
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

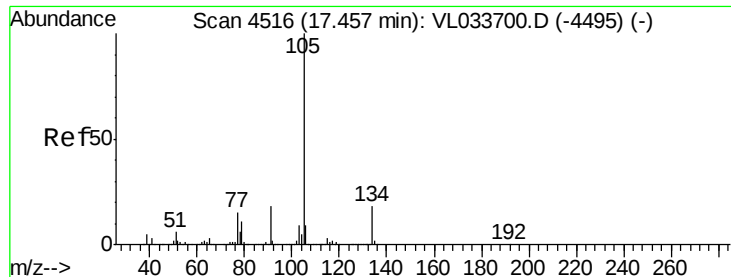
Tgt Ion: 119 Resp: 3389249
 Ion Ratio Lower Upper
 119 100
 91 79.3 65.3 97.9
 134 19.8 15.7 23.5



#66
 Benzyl Chloride
 Concen: 10.070 ppbv
 RT: 17.15 min Scan# 4420
 Delta R.T. -0.01 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Tgt Ion: 91 Resp: 1698482
 Ion Ratio Lower Upper
 91 100
 126 17.7 13.5 20.3
 128 5.6 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.729 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

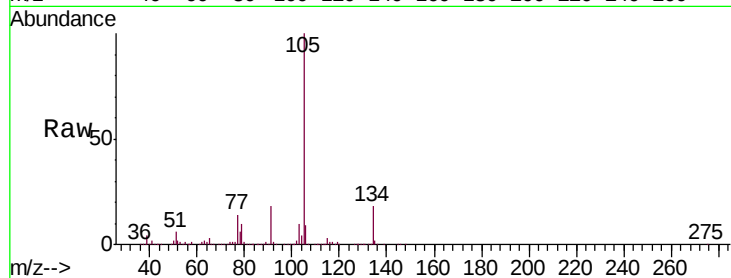
VL0528ABS01DUP

Tgt Ion:105 Resp: 4822377

Ion Ratio Lower Upper

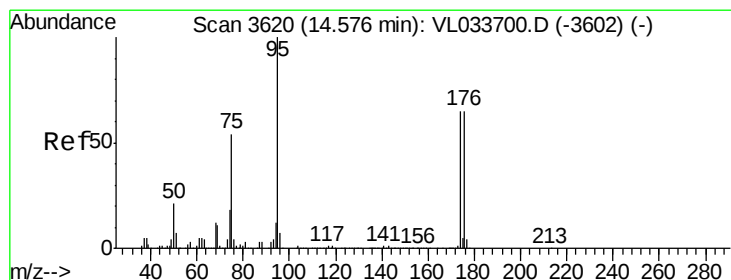
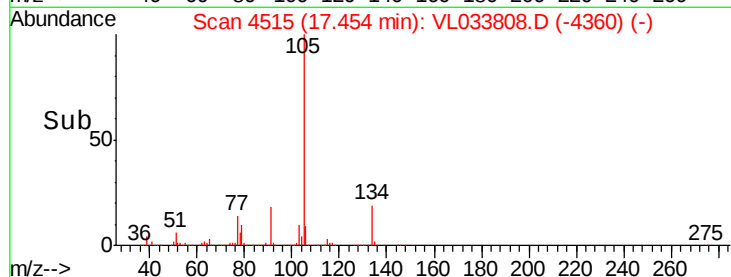
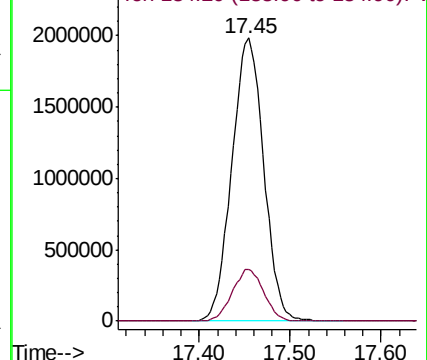
105 100

134 18.1 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.194 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

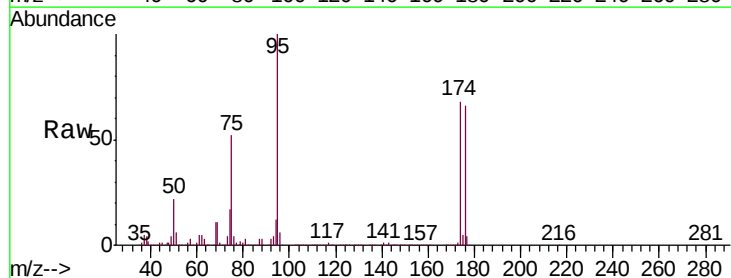
Tgt Ion: 95 Resp: 1839646

Ion Ratio Lower Upper

95 100

174 70.0 53.9 80.9

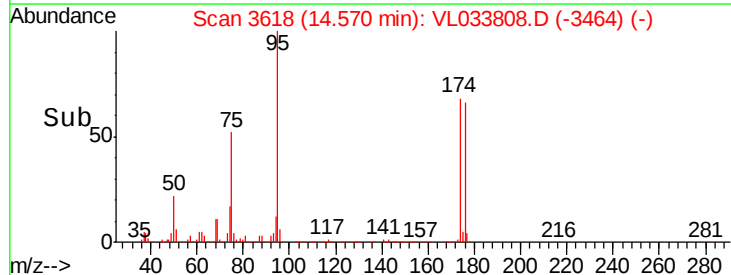
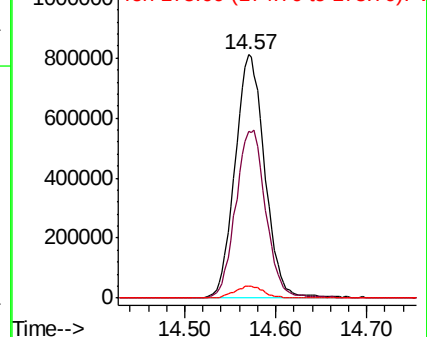
175 5.0 3.8 5.8

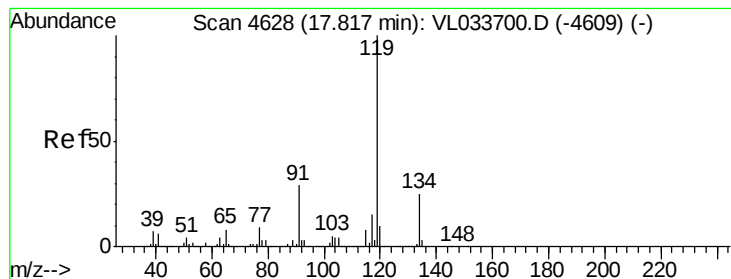


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.825 ppbv

RT: 17.81 min Scan# 4625

Delta R.T. -0.01 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

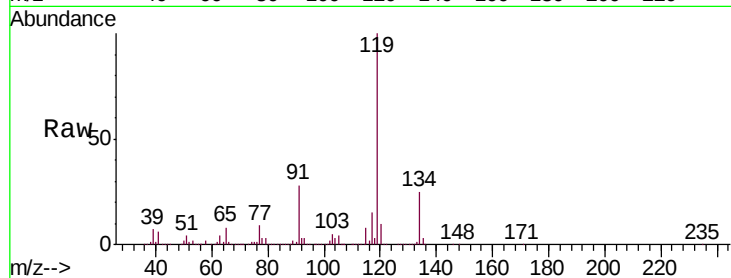
Tgt Ion: 119 Resp: 4025198

Ion Ratio Lower Upper

119 100

134 25.3 20.3 30.5

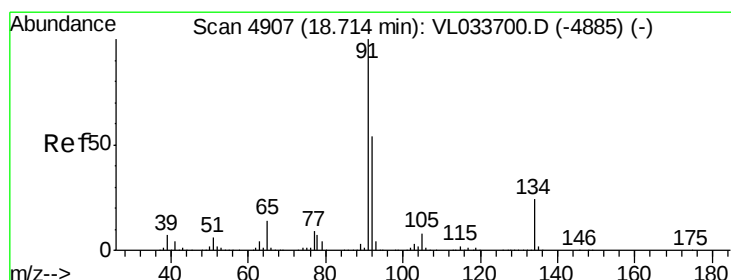
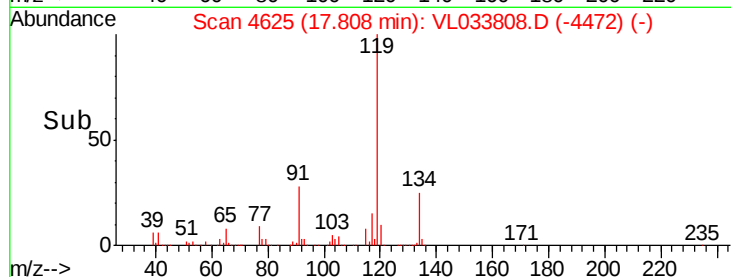
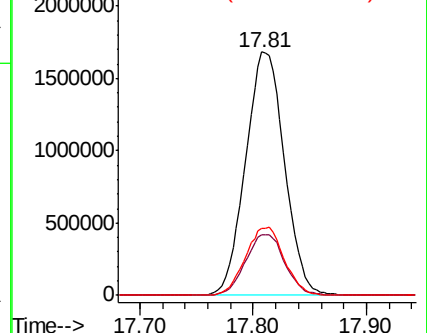
91 27.9 23.1 34.7



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: 9.513 ppbv

RT: 18.71 min Scan# 4906

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

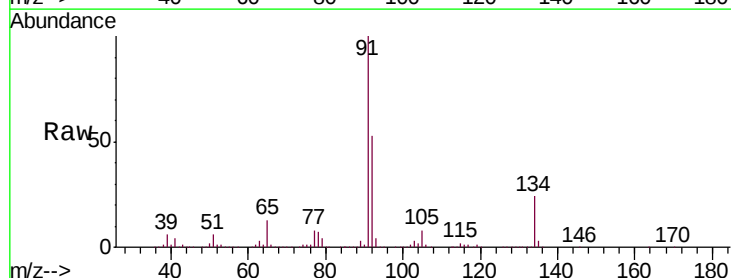
Tgt Ion: 91 Resp: 4179159

Ion Ratio Lower Upper

91 100

92 53.4 42.6 63.8

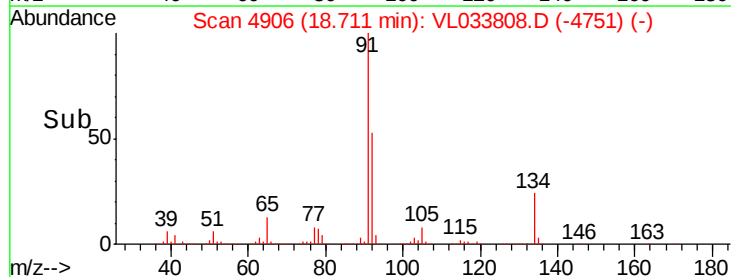
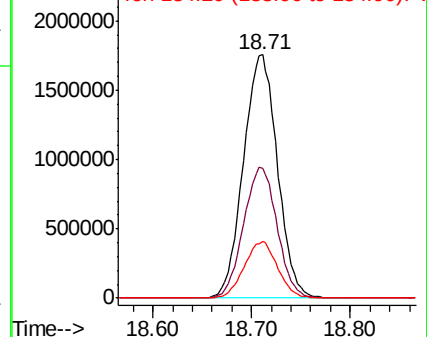
134 22.9 18.1 27.1

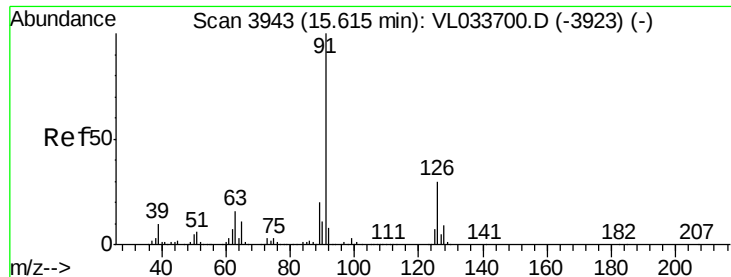


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.860 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

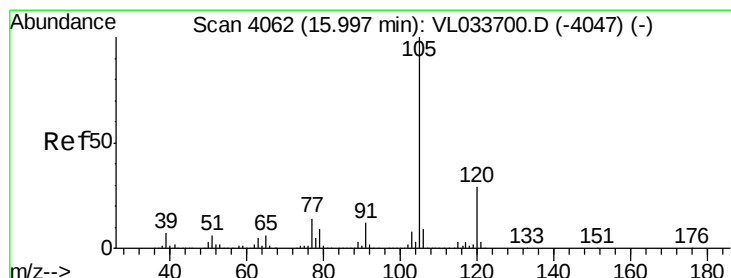
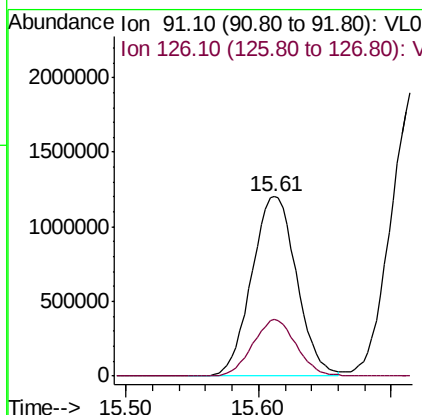
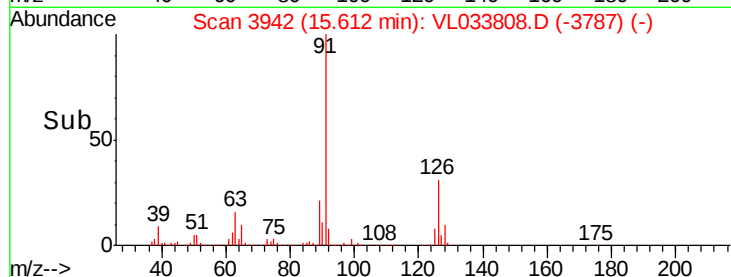
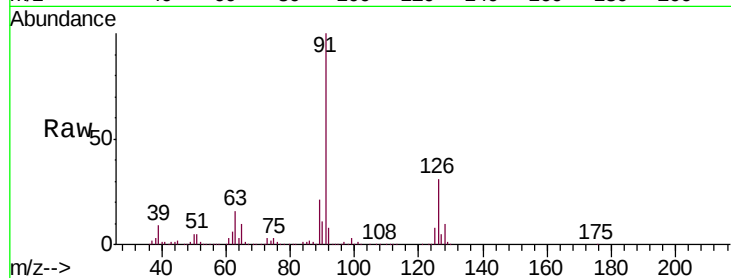
VL0528ABS01DUP

Tgt Ion: 91 Resp: 2837481

Ion Ratio Lower Upper

91 100

126 30.9 12.0 47.8



#72

4-Ethyltoluene

Concen: 10.140 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Tgt Ion: 105 Resp: 3338988

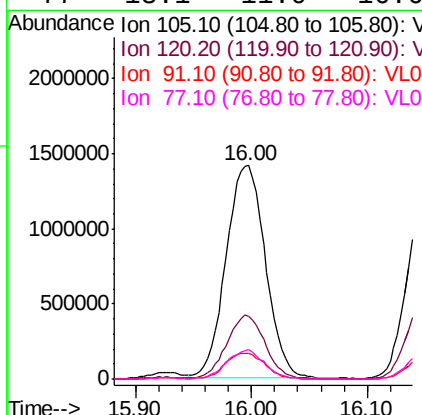
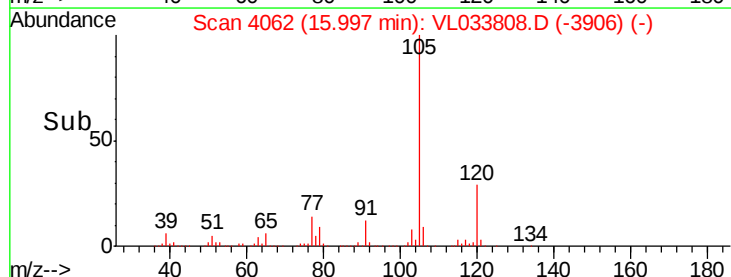
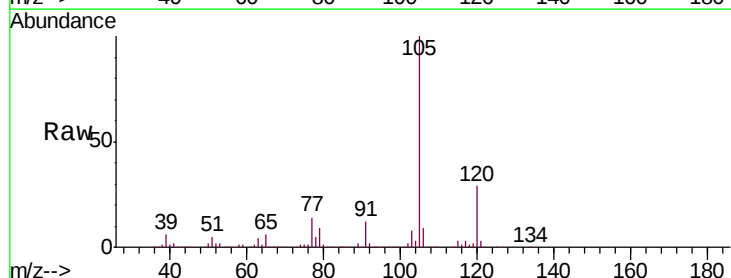
Ion Ratio Lower Upper

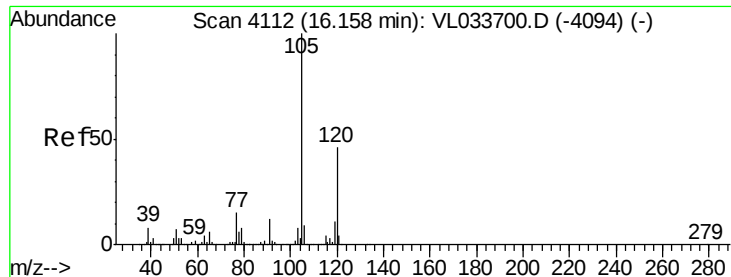
105 100

120 29.2 23.1 34.7

91 12.5 10.4 15.6

77 13.1 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 9.788 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

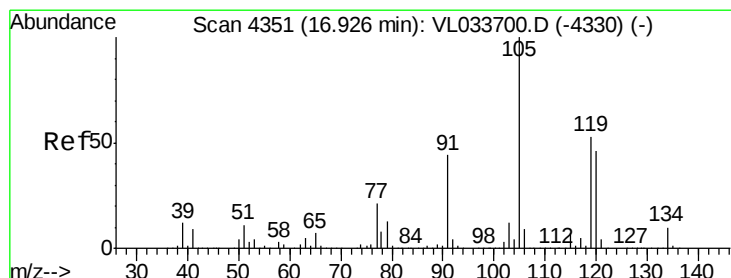
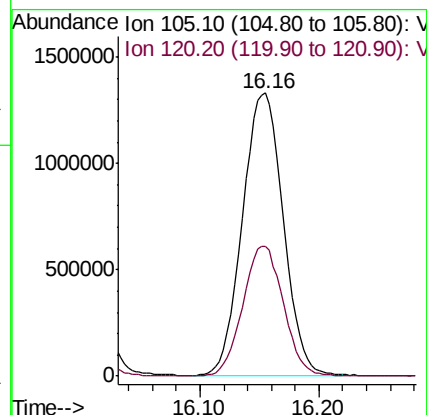
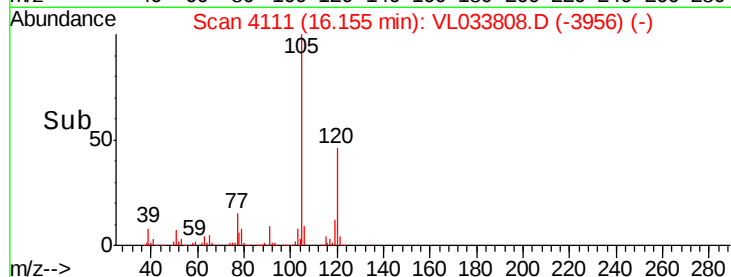
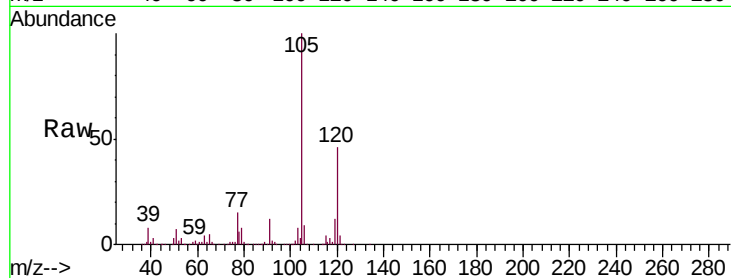
VL0528ABS01DUP

Tgt Ion:105 Resp: 3144722

Ion Ratio Lower Upper

105 100

120 45.8 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 9.255 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Tgt Ion:105 Resp: 3236107

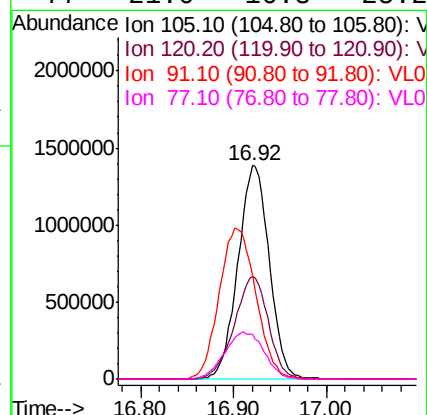
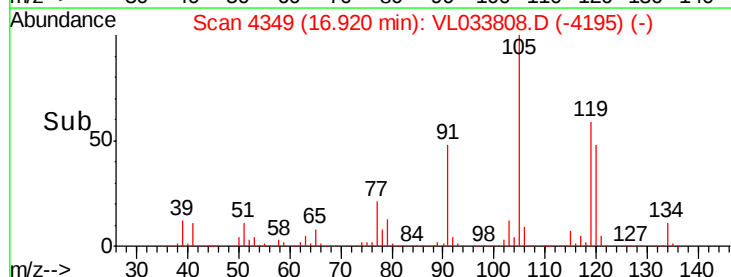
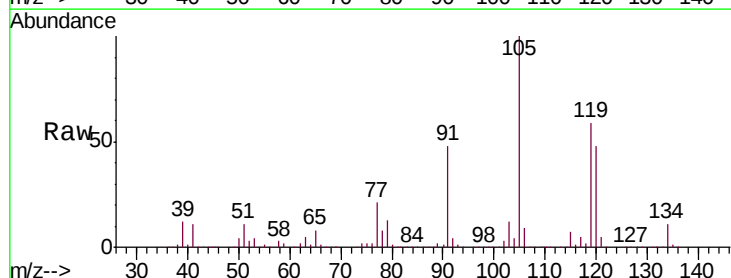
Ion Ratio Lower Upper

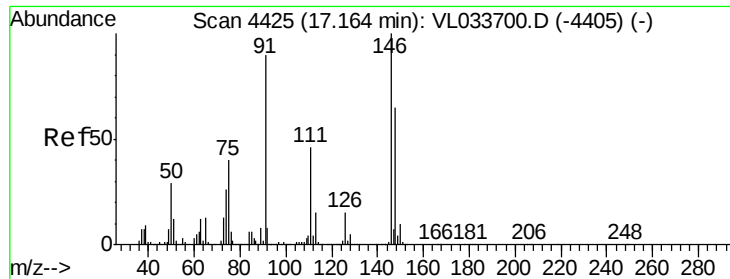
105 100

120 48.1 36.8 55.2

91 48.4 35.4 53.0

77 21.0 16.8 25.2





#75

1,3-Dichlorobenzene

Concen: 9.025 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

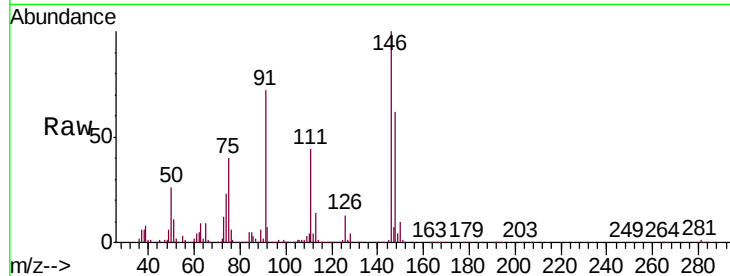
Tgt Ion:146 Resp: 1933815

Ion Ratio Lower Upper

146 100

111 44.2 22.9 68.8

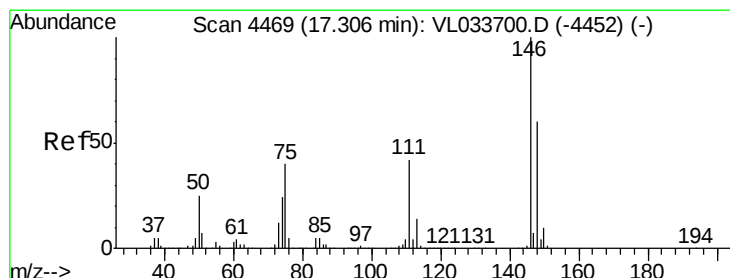
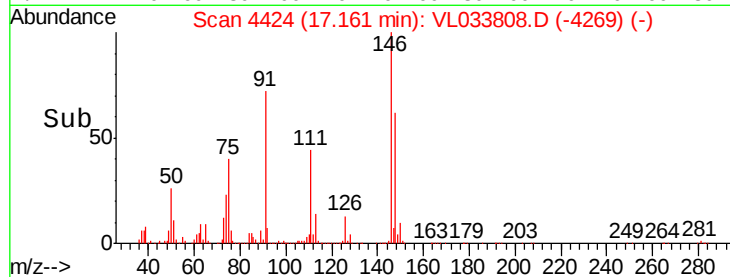
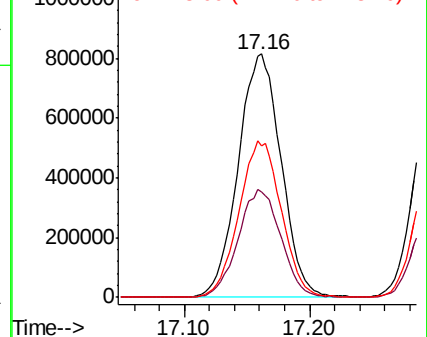
148 63.6 32.0 96.2



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: 9.415 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

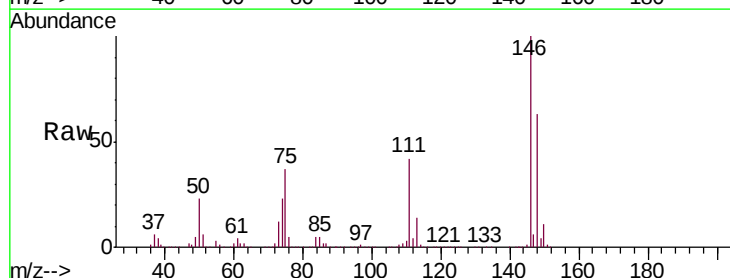
Tgt Ion:146 Resp: 1917425

Ion Ratio Lower Upper

146 100

111 42.8 21.9 65.8

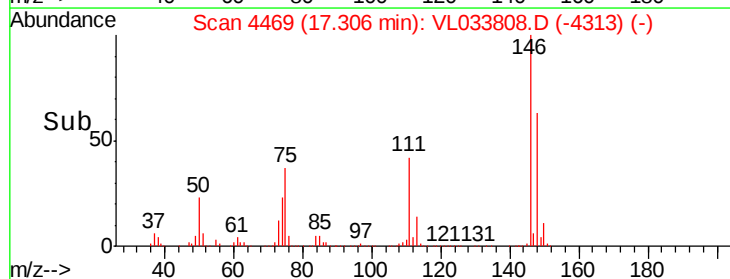
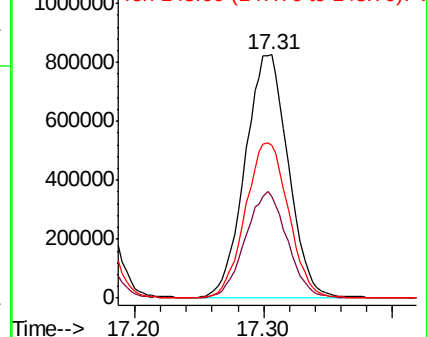
148 64.5 32.1 96.3

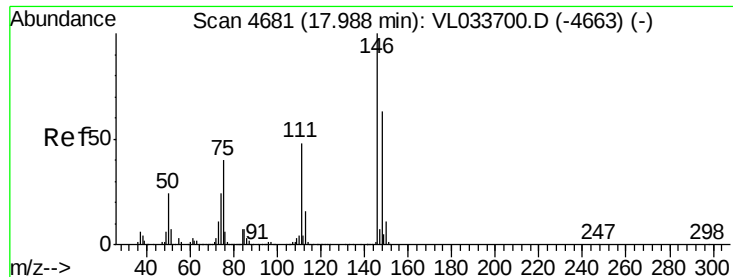


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.314 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. -0.01 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

VL0528ABS01DUP

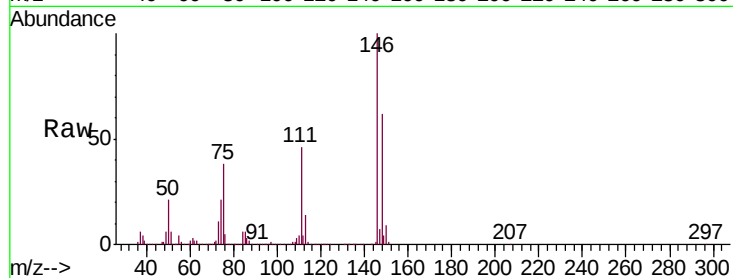
Tgt Ion:146 Resp: 1875205

Ion Ratio Lower Upper

146 100

111 45.2 23.5 70.5

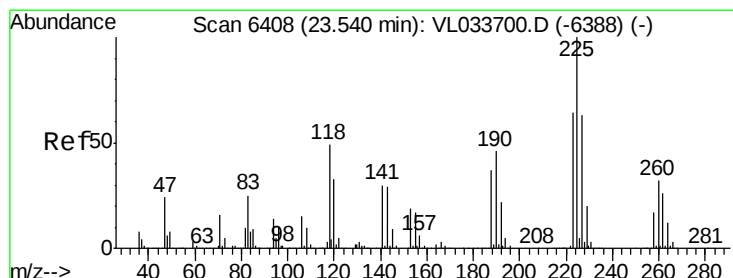
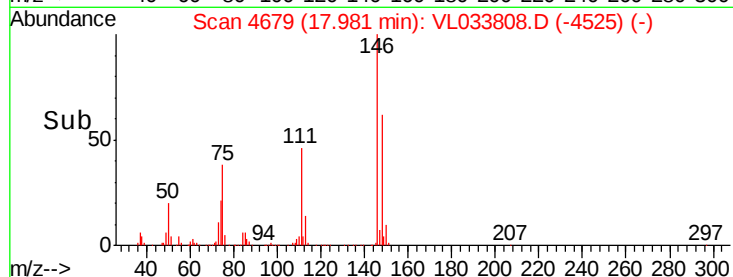
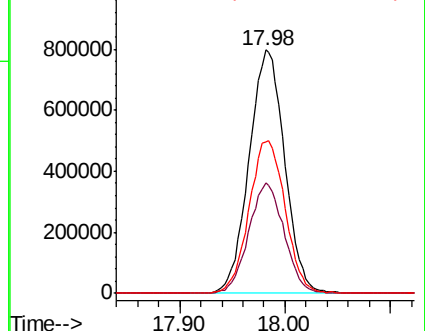
148 63.9 32.1 96.3



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: 8.029 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. 0.00 min

Lab File: VL033808.D

Acq: 28 May 2019 17:01

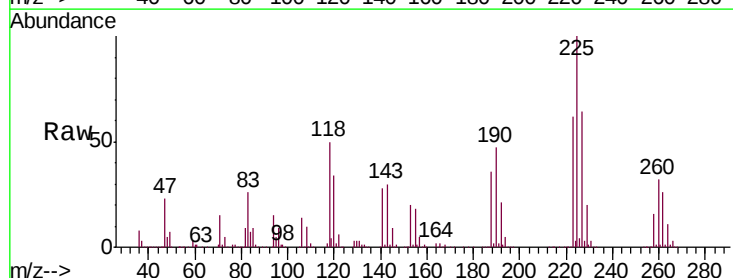
Tgt Ion:225 Resp: 1222235

Ion Ratio Lower Upper

225 100

223 63.3 50.2 75.4

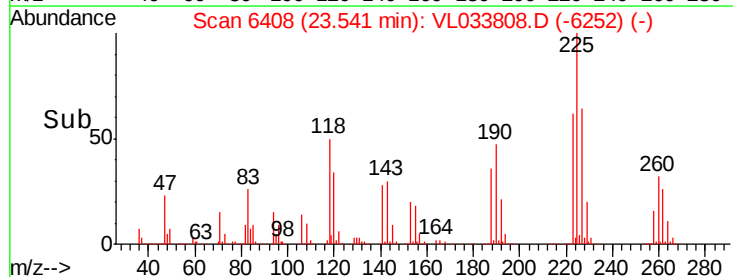
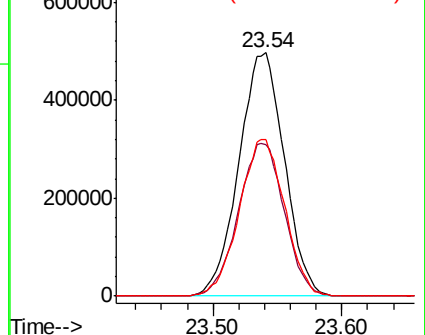
227 64.2 50.7 76.1

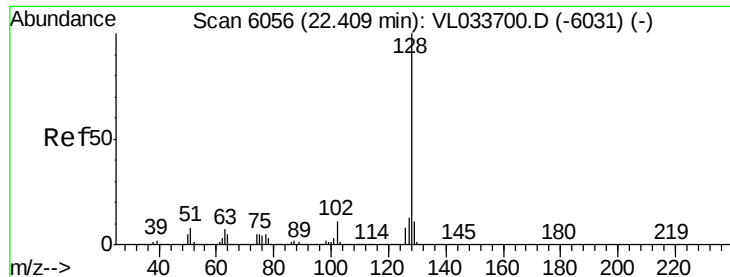


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

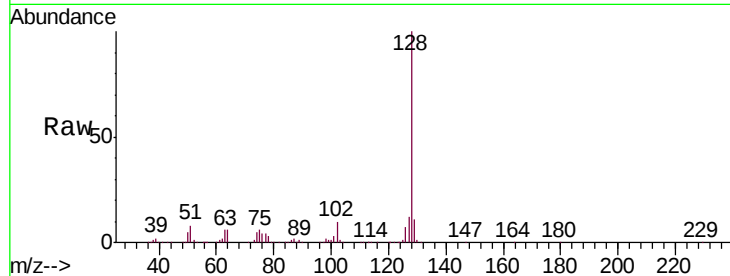




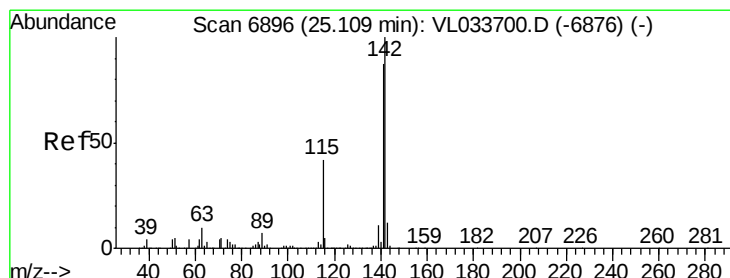
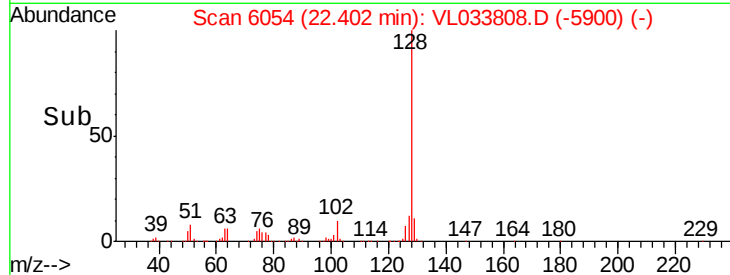
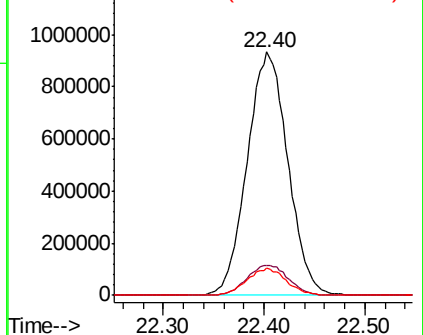
#79
Naphthalene
Concen: 8.035 ppbv
RT: 22.40 min Scan# 6054
Delta R.T. -0.01 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Instrument :
MSVOA_L
ClientSampleId :
VL0528ABS01DUP

Tgt Ion:128 Resp: 2609664
Ion Ratio Lower Upper
128 100
127 12.0 10.6 16.0
129 11.3 8.9 13.3

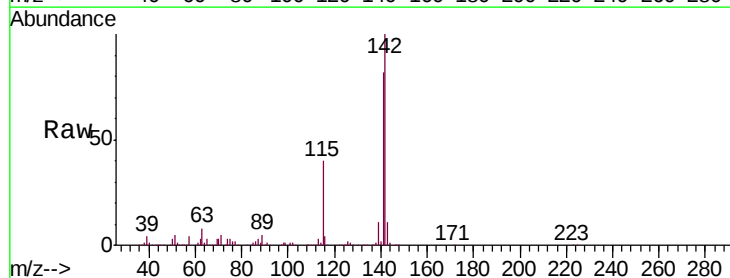


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

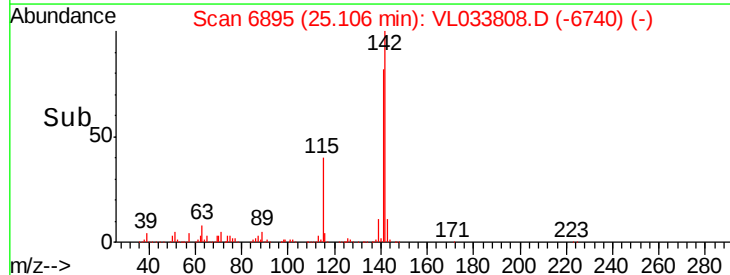
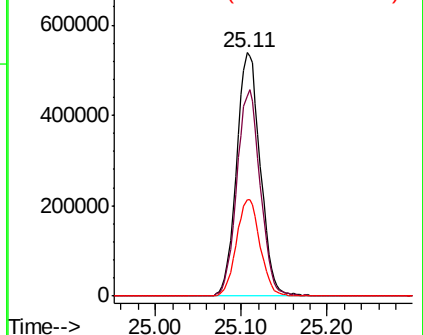


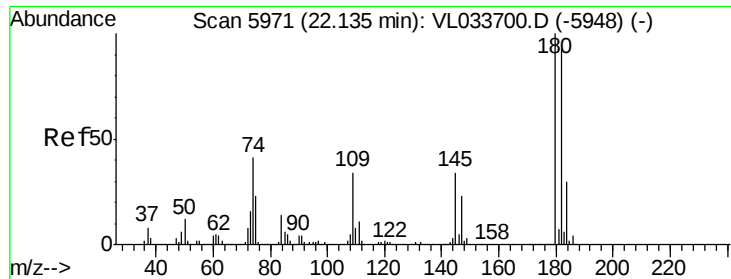
#80
Naphthalene, 2-methyl-
Concen: 8.343 ppbv
RT: 25.11 min Scan# 6895
Delta R.T. -0.00 min
Lab File: VL033808.D
Acq: 28 May 2019 17:01

Tgt Ion:142 Resp: 1029614
Ion Ratio Lower Upper
142 100
141 84.1 67.2 100.8
115 40.1 34.1 51.1



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

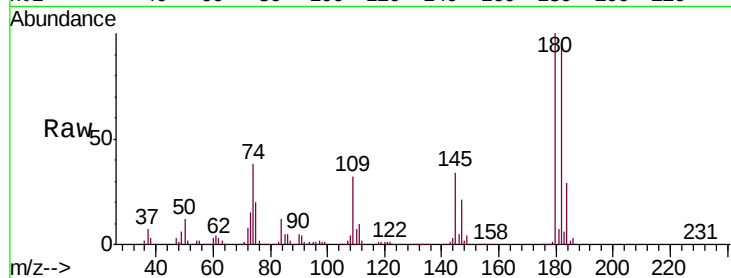




#81
 1,2,4-Trichlorobenzene
 Concen: 7.901 ppbv
 RT: 22.13 min Scan# 5969
 Delta R.T. -0.01 min
 Lab File: VL033808.D
 Acq: 28 May 2019 17:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0528ABS01DUP

Tgt Ion:180 Resp: 1502606
 Ion Ratio Lower Upper
 180 100
 182 96.2 76.1 114.1
 184 30.4 24.6 37.0



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

