

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064594.D
 Acq On : 26 Dec 2019 12:45
 Operator : VA/SY
 Sample : K6435-01
 Misc : 5.27G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4D-(21.5-23.5)

Quant Time: Dec 27 01:39:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	450635	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	713921	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	749948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	401054	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	210495	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	7.92	113	224767	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
50) Toluene-d8	10.34	98	884603	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	12.64	95	343977	64.85	ug/l	0.00
Spiked Amount			Recovery	=	129.70%	

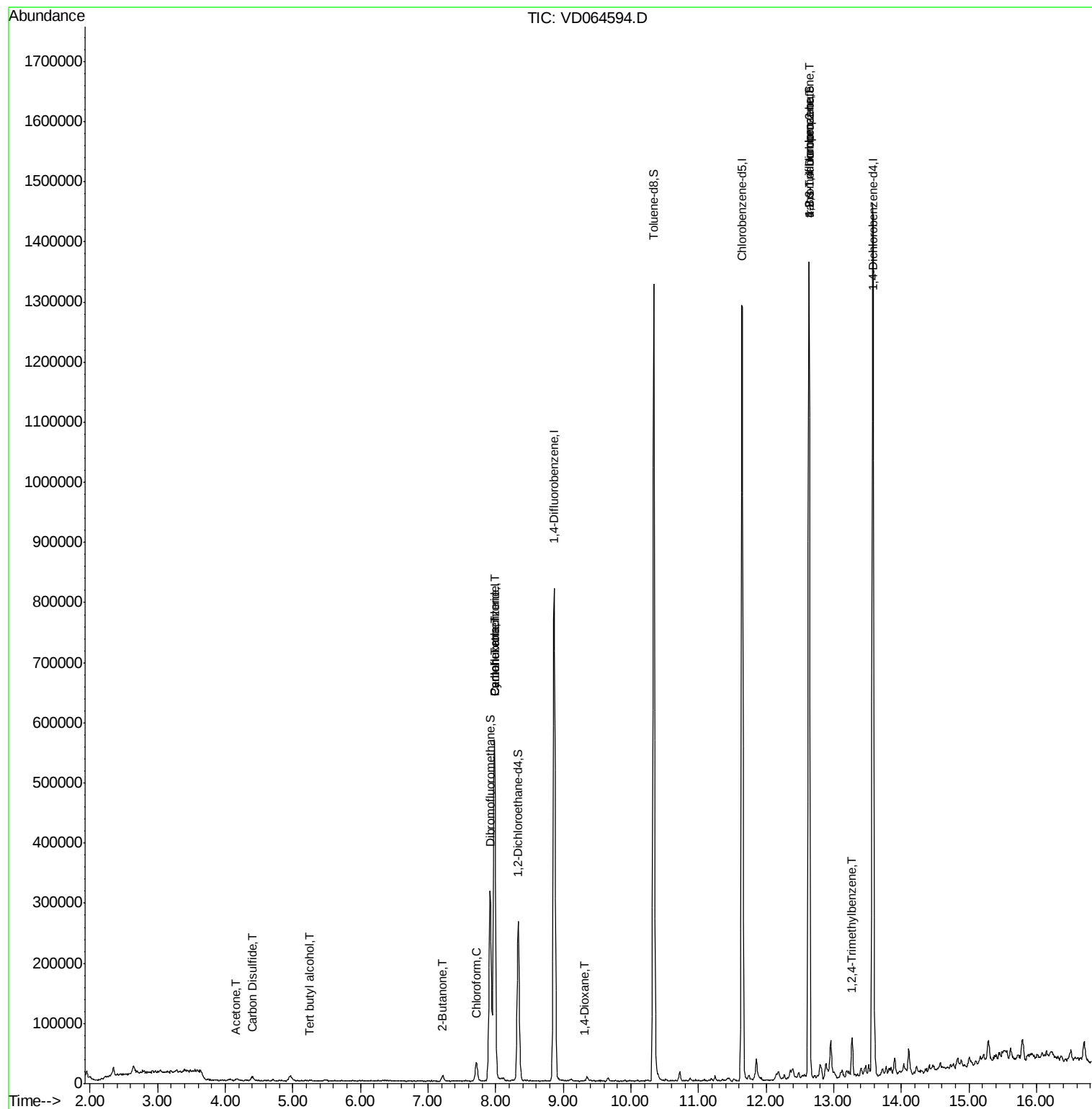
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	1550	6.806	ug/l #	79
16) Acetone	4.16	43	2278	6.586	ug/l	97
17) Carbon Disulfide	4.40	76	14129	1.102	ug/l	96
20) Methylene Chloride	4.96	84	6458	Below Cal	#	85
25) 2-Butanone	7.21	43	1971	1.805	ug/l #	89
30) Chloroform	7.71	83	30030	3.867	ug/l	96
31) Cyclohexane	7.98	56	11141	1.504	ug/l #	14
38) Carbon Tetrachloride	7.98	117	42638	5.819	ug/l #	16
49) 1,4-Dioxane	9.32	88	54	1.875	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	181624	57.349	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	181624	119.945	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	34020	1.451	ug/l	99

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

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QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

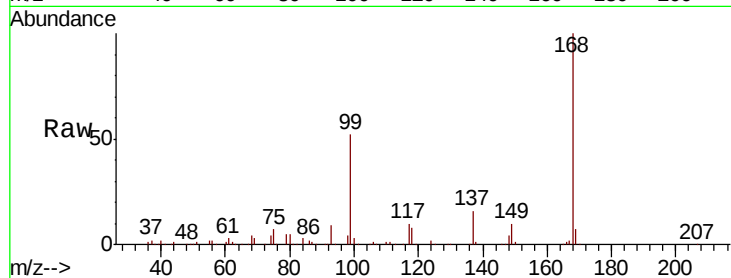
SB-4D-(21.5-23.5)

Tot Ion:168 Resp: 450635

Ion Ratio Lower Upper

168 100

99 52.3 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

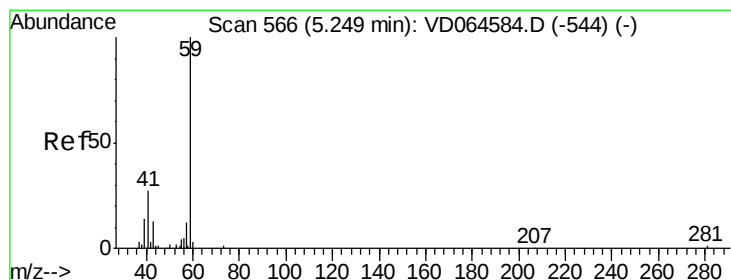
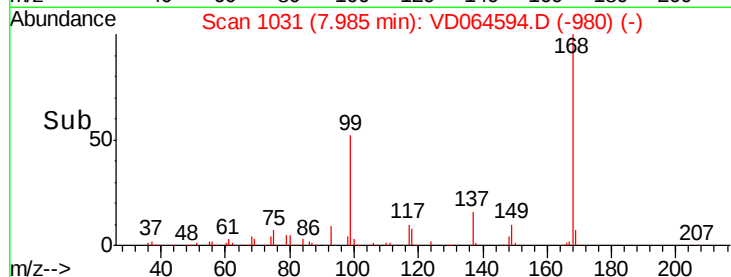
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 6.806 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.00 min

Lab File: VD064594.D

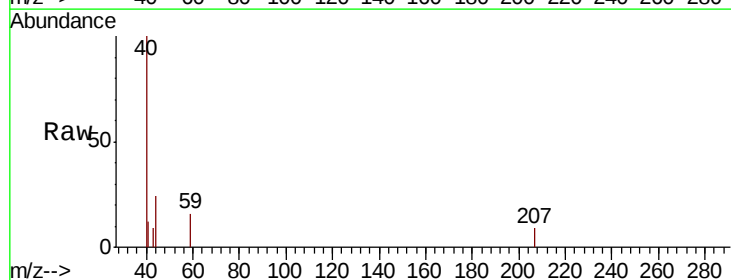
Acq: 26 Dec 2019 12:45

Tgt Ion: 59 Resp: 1550

Ion Ratio Lower Upper

59 100

57 3.5 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.25

600

500

400

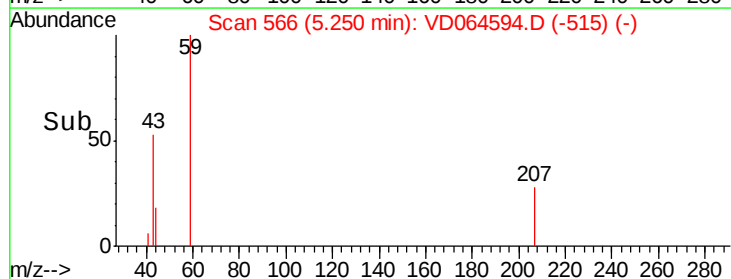
300

200

100

0

Time-->





#16

Acetone

Concen: 6.586 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

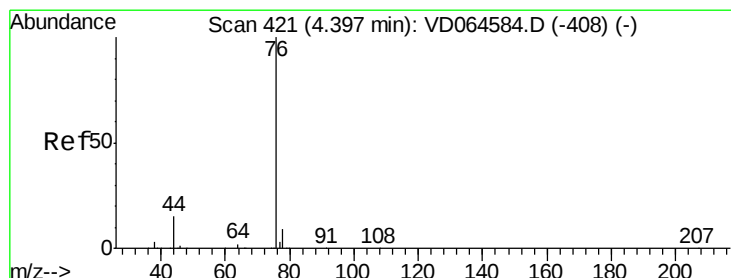
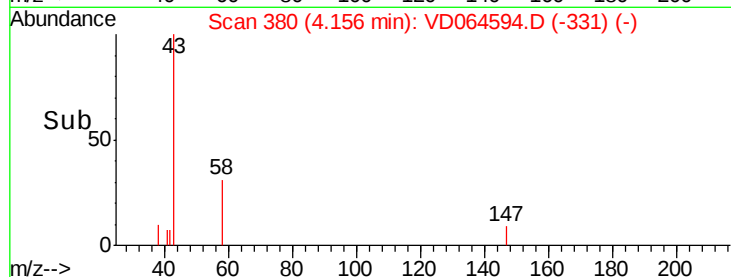
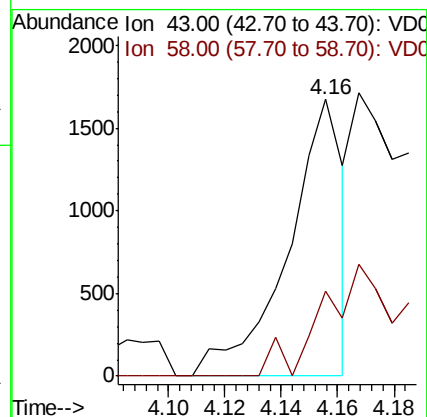
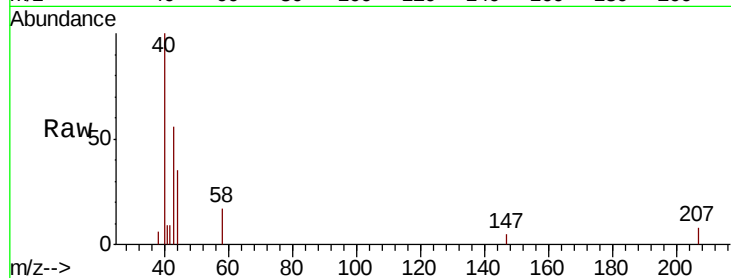
SB-4D-(21.5-23.5)

Tot Ion: 43 Resp: 2278

Ion Ratio Lower Upper

43 100

58 30.6 25.8 38.6



#17

Carbon Disulfide

Concen: 1.102 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.01 min

Lab File: VD064594.D

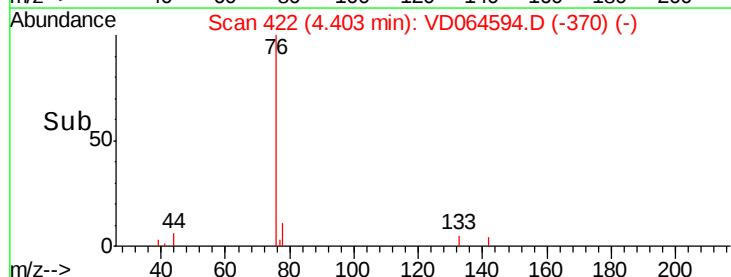
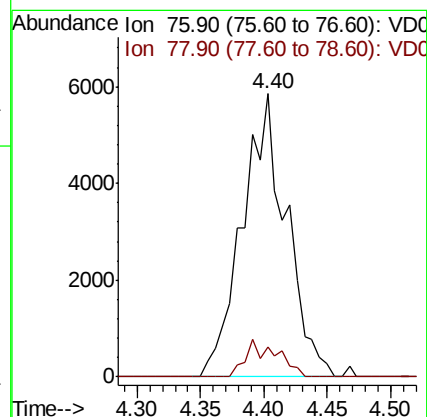
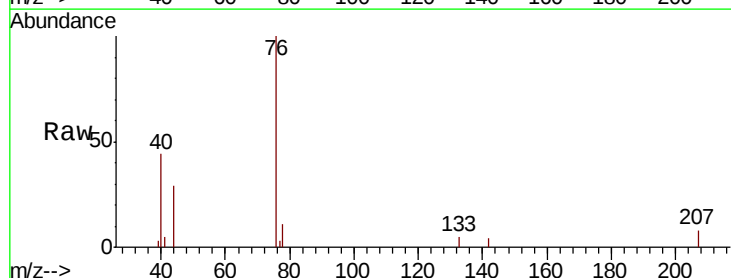
Acq: 26 Dec 2019 12:45

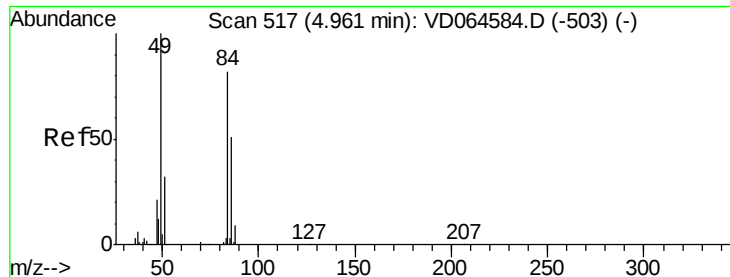
Tgt Ion: 76 Resp: 14129

Ion Ratio Lower Upper

76 100

78 10.6 7.3 10.9

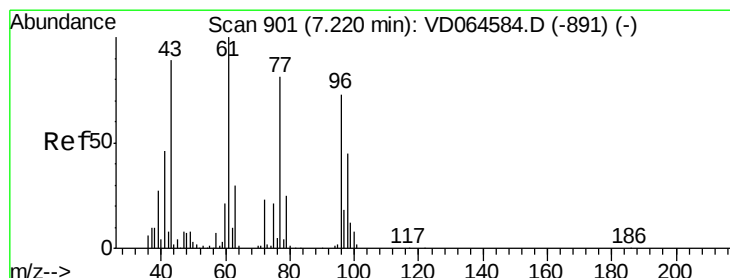
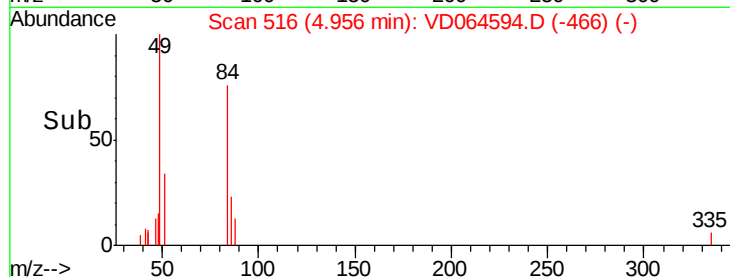
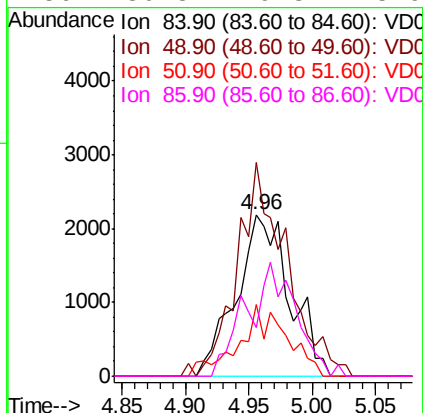
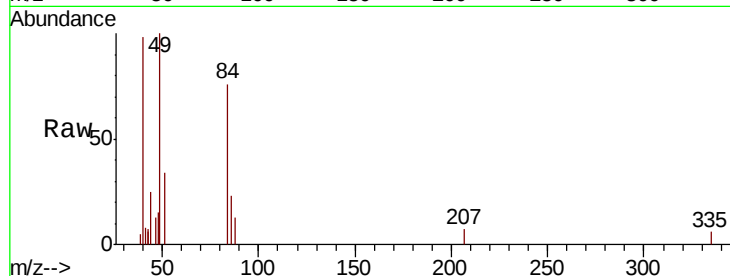




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064594.D
Acq: 26 Dec 2019 12:45

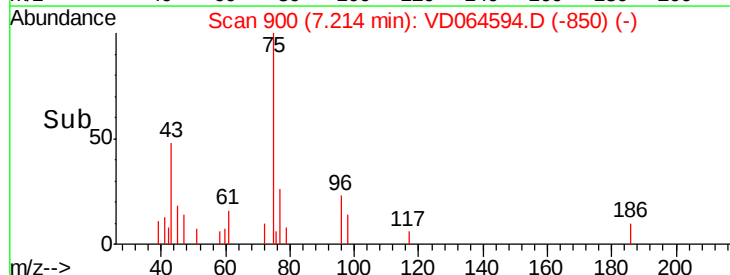
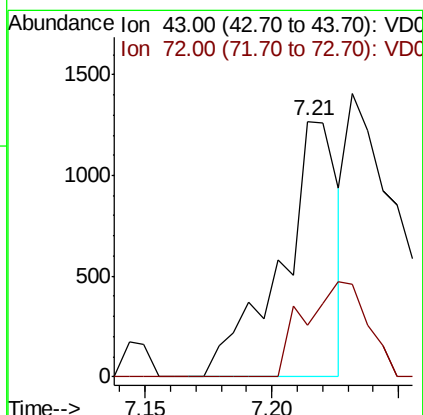
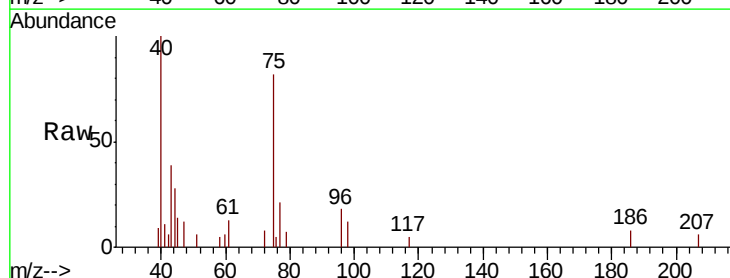
Instrument :
MSVOA_D
ClientSampleId :
SB-4D-(21.5-23.5)

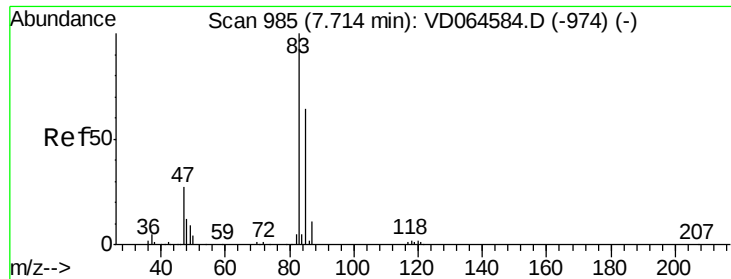
Tot Ion: 84 Resp: 6458
Ion Ratio Lower Upper
84 100
49 124.9 97.2 145.8
51 44.6 31.4 47.0
86 30.3 49.3 73.9#



#25
2-Butanone
Concen: 1.805 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.01 min
Lab File: VD064594.D
Acq: 26 Dec 2019 12:45

Tgt Ion: 43 Resp: 1971
Ion Ratio Lower Upper
43 100
72 20.3 20.7 31.1#

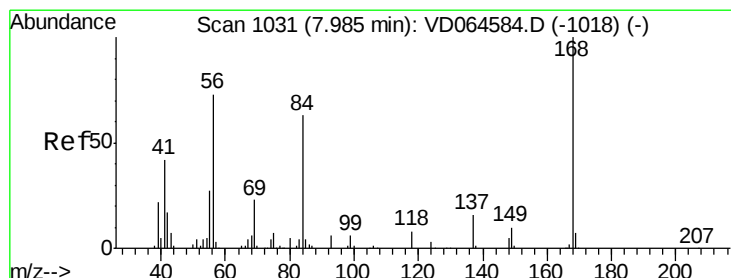
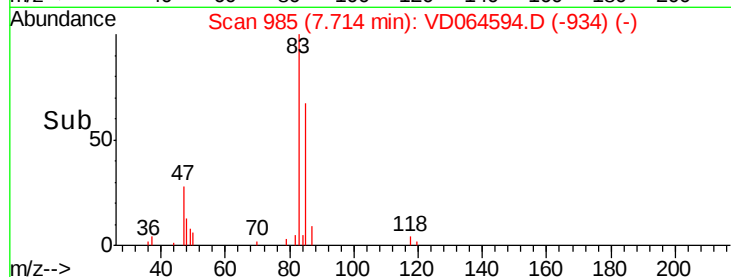
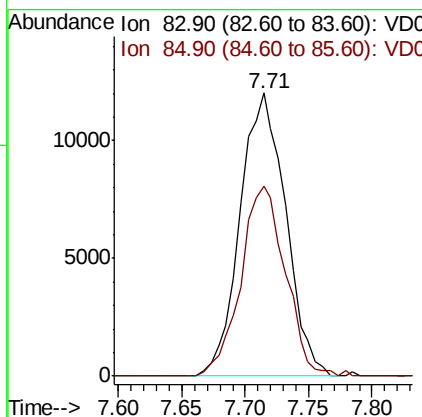
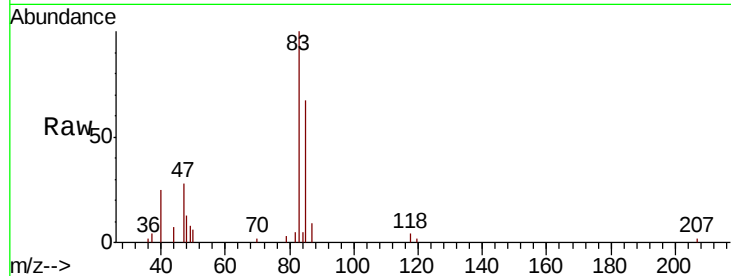




#30
Chloroform
Concen: 3.867 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064594.D
Acq: 26 Dec 2019 12:45

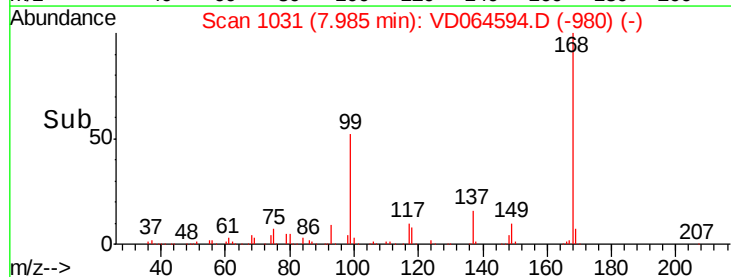
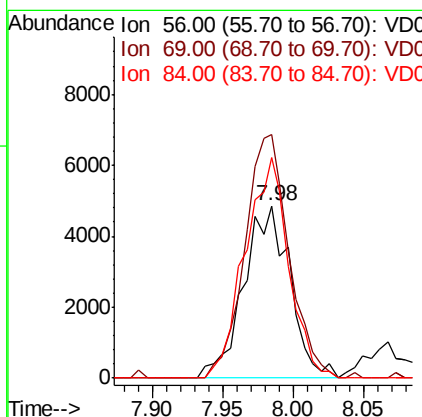
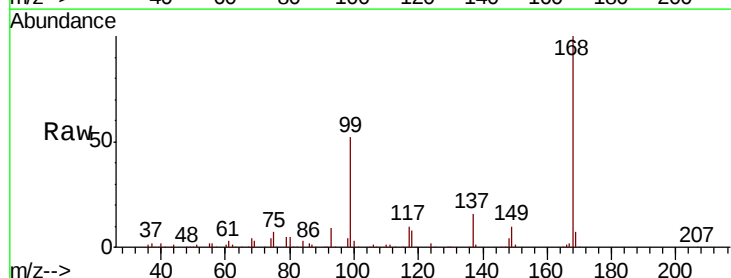
Instrument :
MSVOA_D
ClientSampleId :
SB-4D-(21.5-23.5)

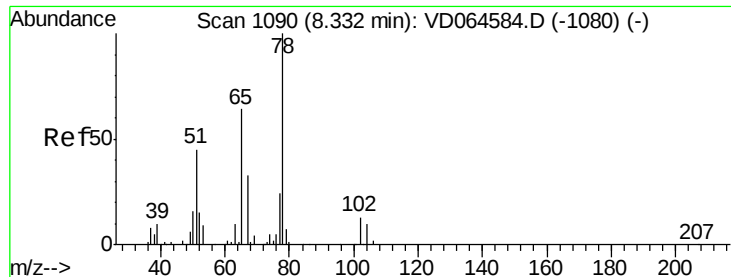
Tot Ion: 83 Resp: 30030
Ion Ratio Lower Upper
83 100
85 67.3 51.1 76.7



#31
Cyclohexane
Concen: 1.504 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064594.D
Acq: 26 Dec 2019 12:45

Tgt Ion: 56 Resp: 11141
Ion Ratio Lower Upper
56 100
69 141.4 24.7 37.1#
84 127.9 69.4 104.2#





#33

1,2-Dichloroethane-d4

Concen: 52.973 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

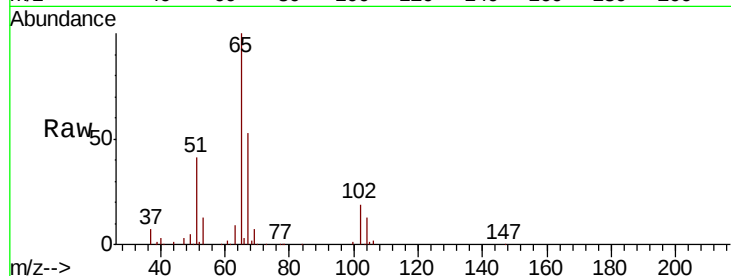
SB-4D-(21.5-23.5)

Tot Ion: 65 Resp: 210495

Ion Ratio Lower Upper

65 100

67 51.0 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

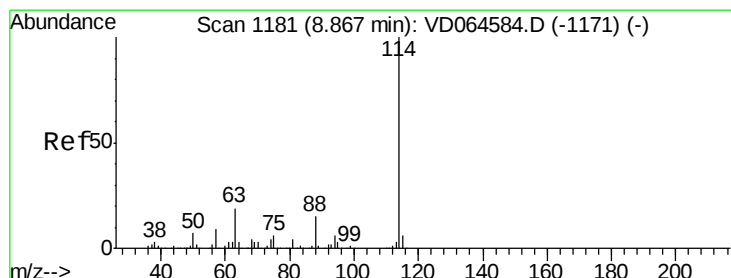
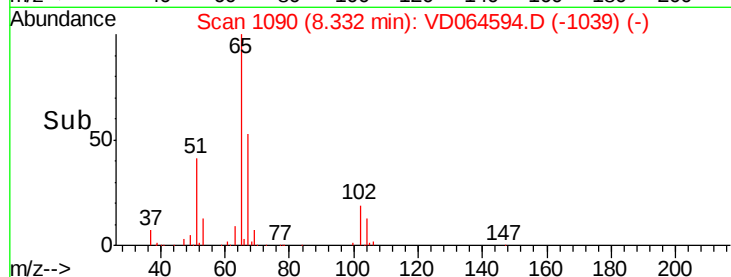
60000

40000

20000

0

Time--> 8.20 8.30 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

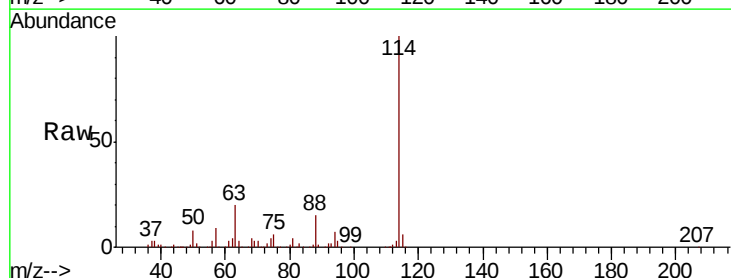
Tgt Ion: 114 Resp: 713921

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.0

88 14.9 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

400000

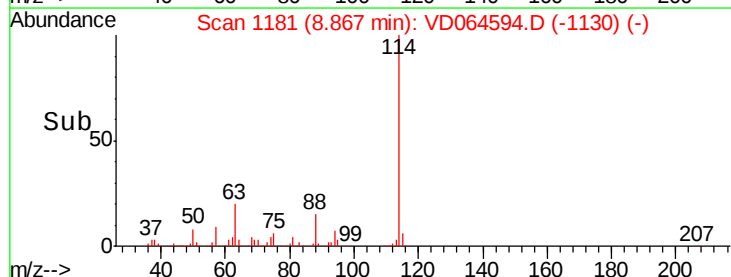
300000

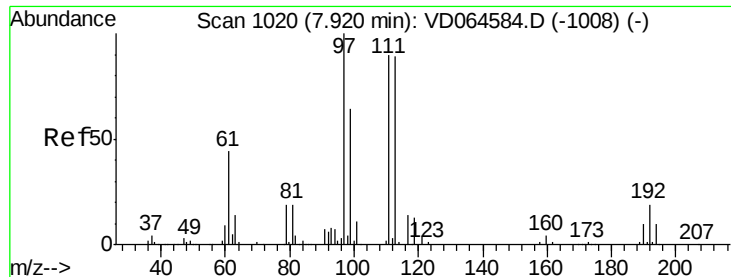
200000

100000

0

Time--> 8.80 8.90 9.00

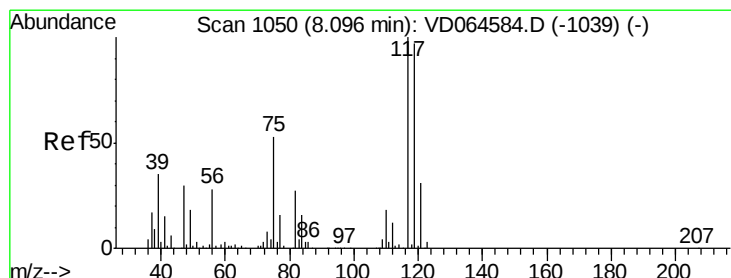
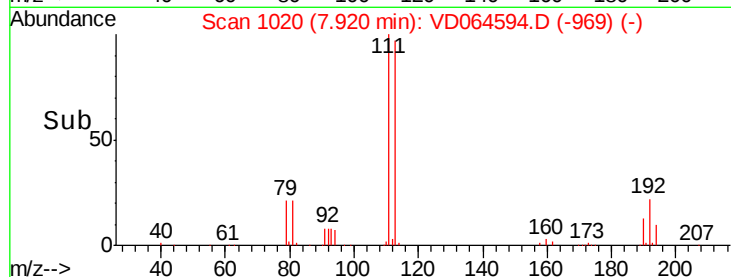
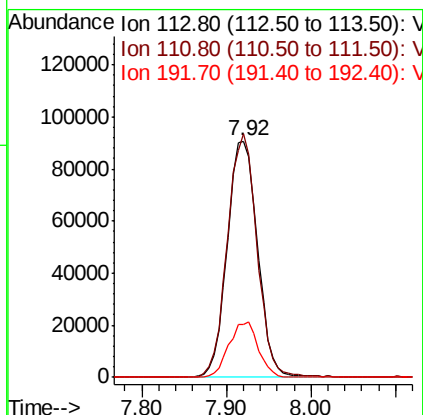
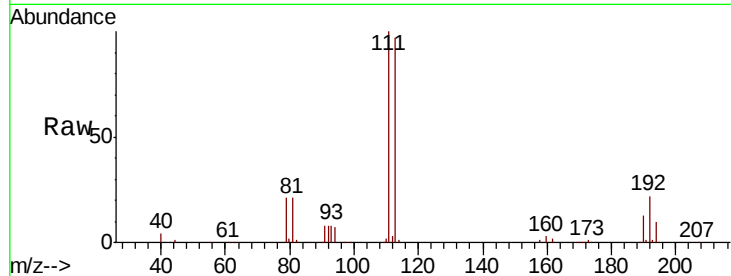




#35
 Dibromofluoromethane
 Concen: 51.316 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064594.D
 Acq: 26 Dec 2019 12:45

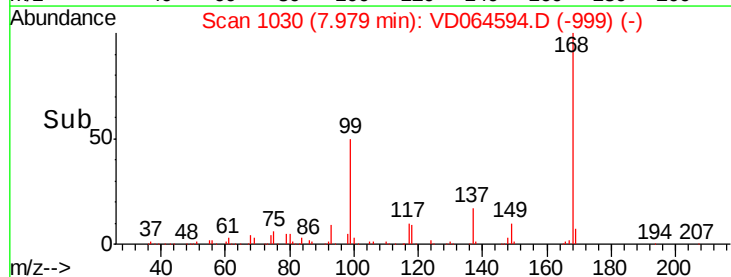
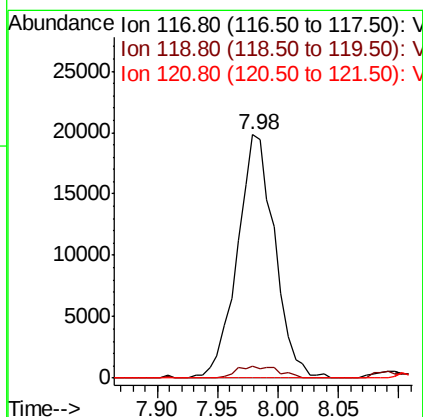
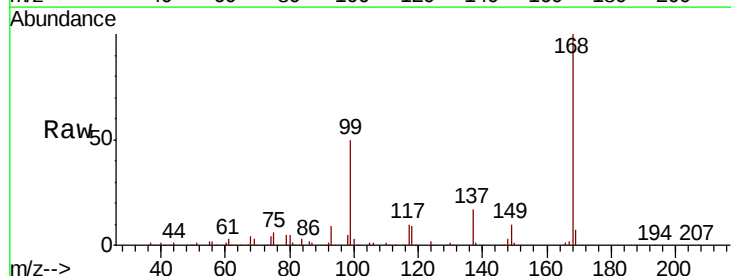
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 SB-4D-(21.5-23.5)

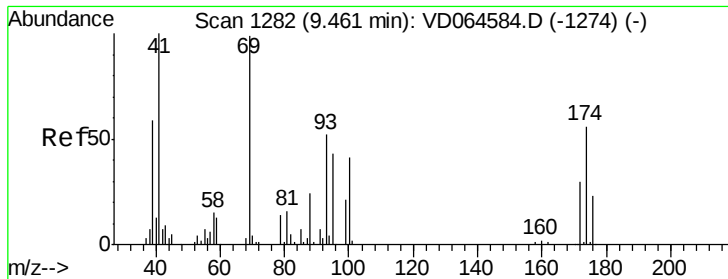
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.3	80.6	121.0
192	22.6	17.9	26.9



#38
 Carbon Tetrachloride
 Concen: 5.819 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD064594.D
 Acq: 26 Dec 2019 12:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.3	115.9#
121	0.0	25.0	37.6#





#49

1,4-Dioxane

Concen: 1.875 ug/l

RT: 9.32 min Scan# 1258

Delta R.T. -0.14 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

SB-4D-(21.5-23.5)

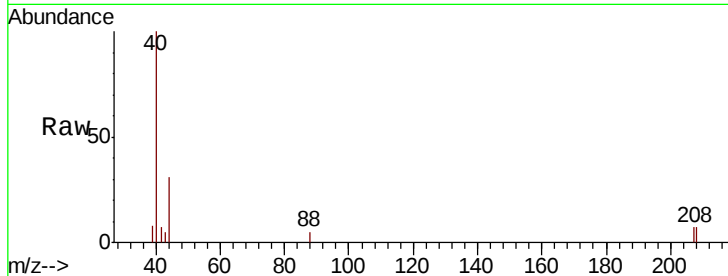
Tot Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 442.6 27.7 41.5#

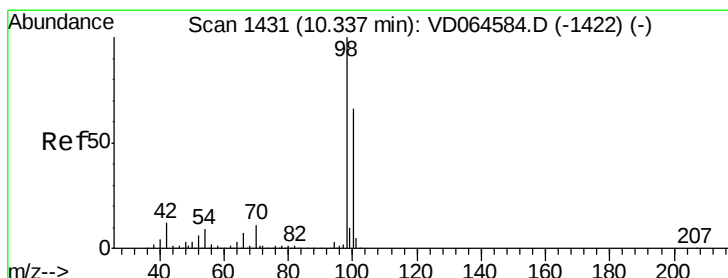
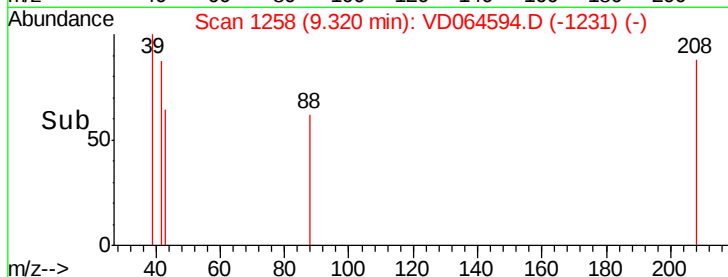
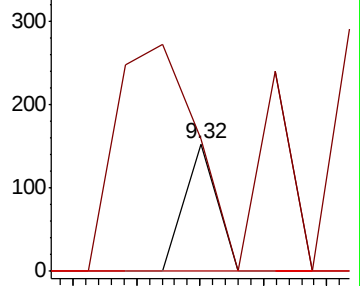
58 0.0 53.8 80.6#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 52.733 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD064594.D

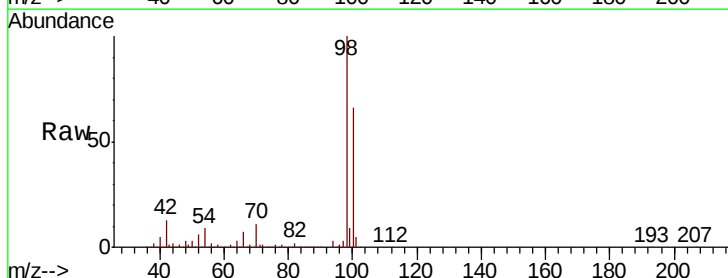
Acq: 26 Dec 2019 12:45

Tgt Ion: 98 Resp: 884603

Ion Ratio Lower Upper

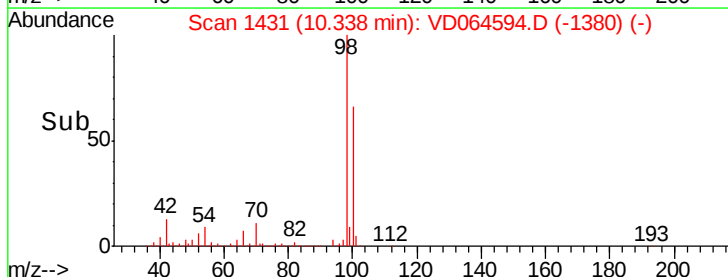
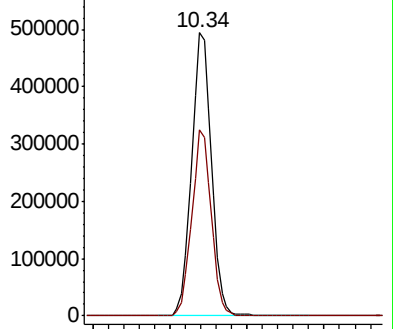
98 100

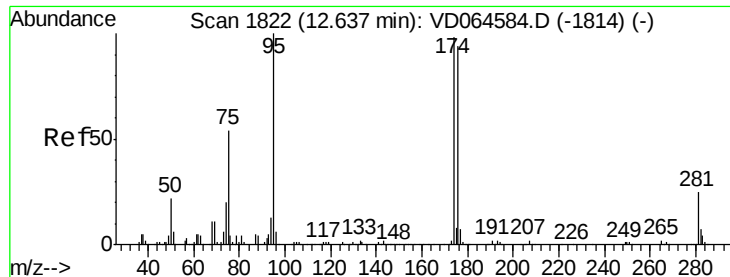
100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 64.847 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

SB-4D-(21.5-23.5)

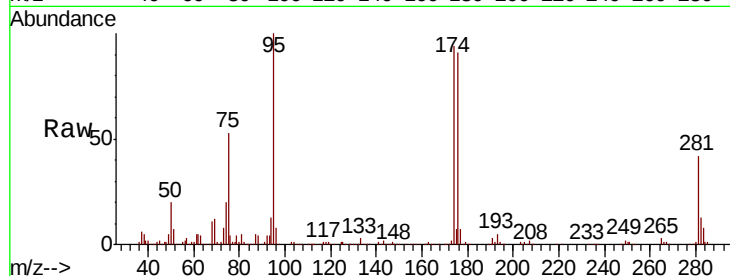
Tot Ion: 95 Resp: 343977

Ion Ratio Lower Upper

95 100

174 95.4 0.0 193.2

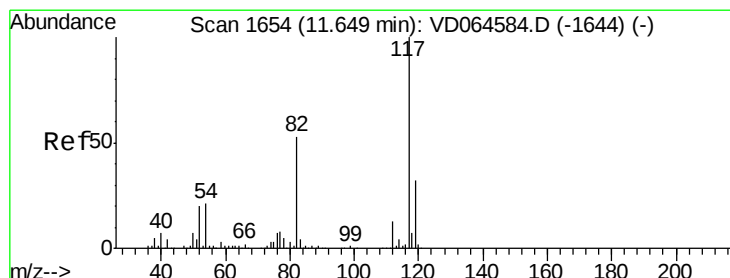
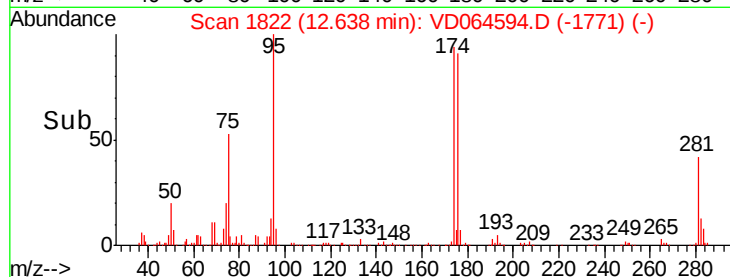
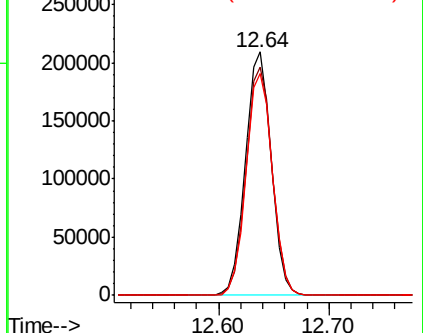
176 93.1 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

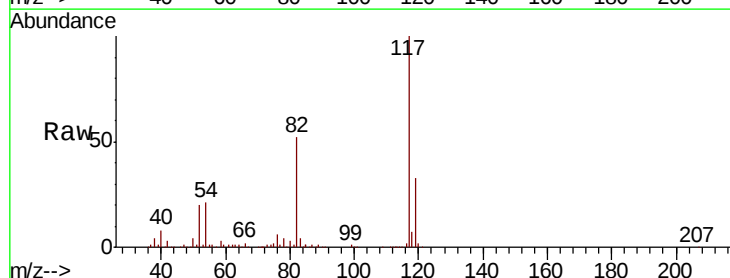
Tgt Ion: 117 Resp: 749948

Ion Ratio Lower Upper

117 100

82 52.2 42.2 63.4

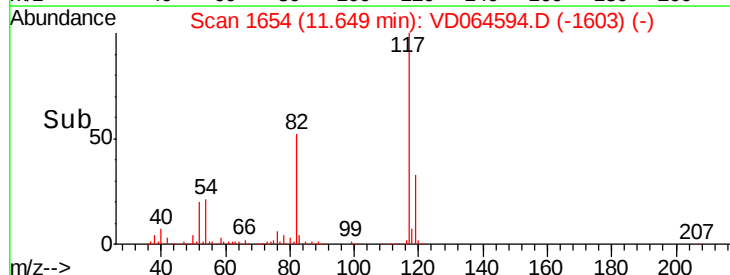
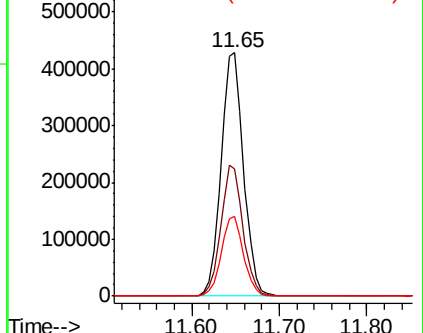
119 32.8 26.0 39.0

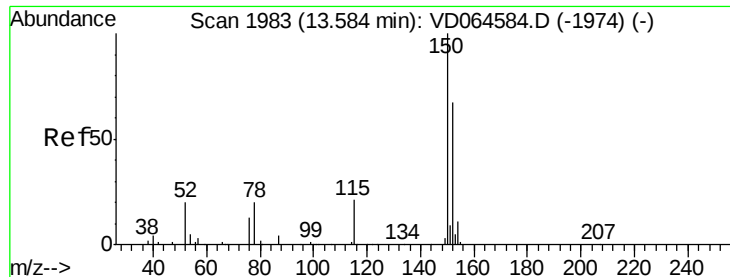


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

SB-4D-(21.5-23.5)

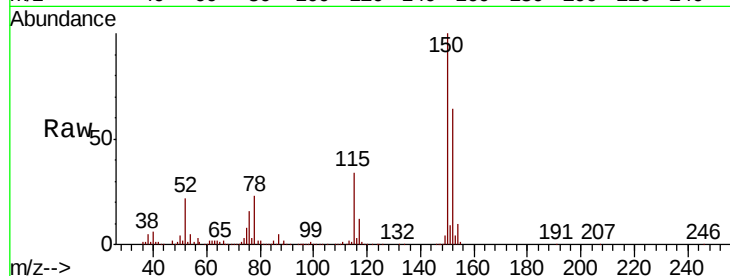
Tot Ion:152 Resp: 401054

Ion Ratio Lower Upper

152 100

115 54.1 27.8 83.4

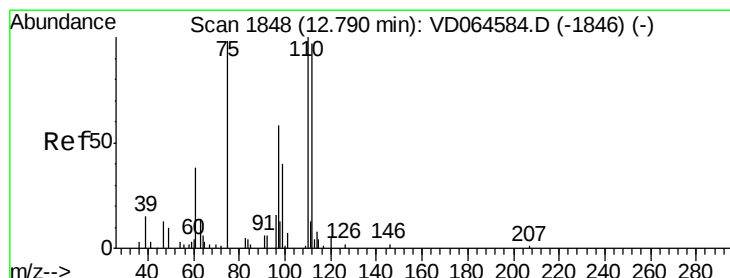
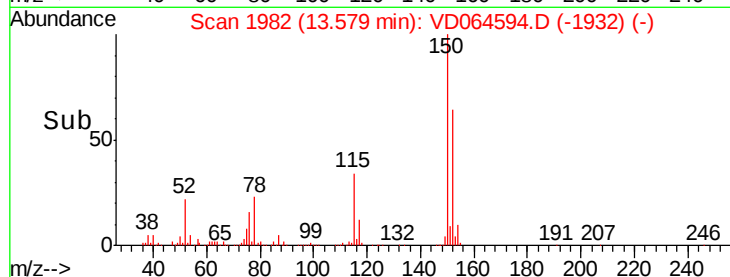
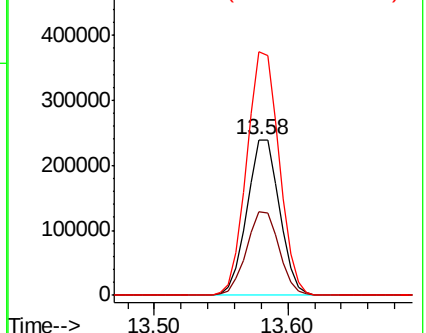
150 156.4 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 57.349 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064594.D

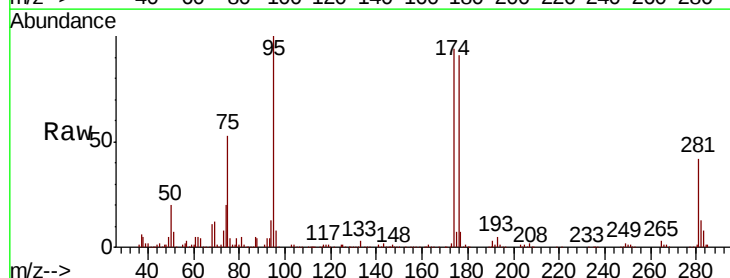
Acq: 26 Dec 2019 12:45

Tgt Ion: 75 Resp: 181624

Ion Ratio Lower Upper

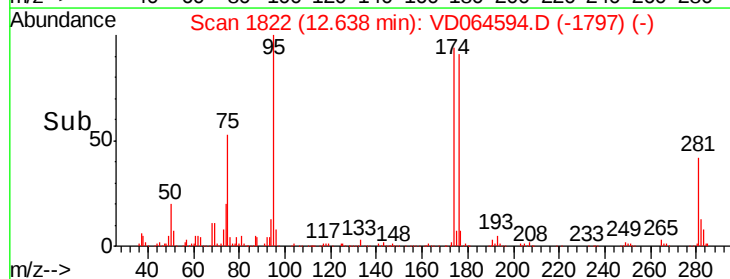
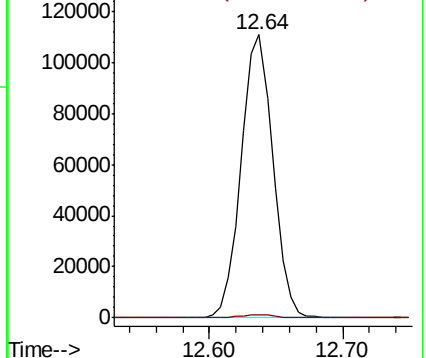
75 100

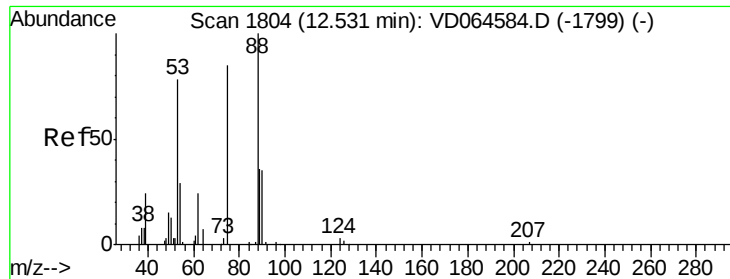
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.945 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064594.D

Acq: 26 Dec 2019 12:45

Instrument :

MSVOA_D

ClientSampleId :

SB-4D-(21.5-23.5)

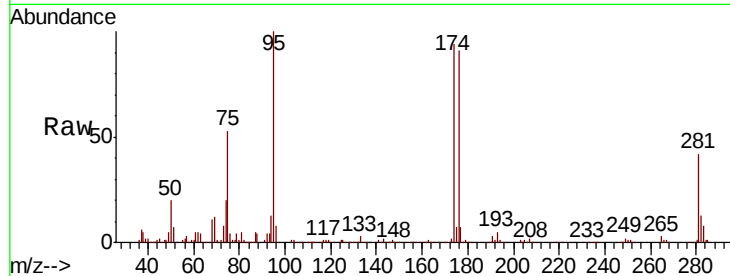
Tot Ion: 75 Resp: 181624

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

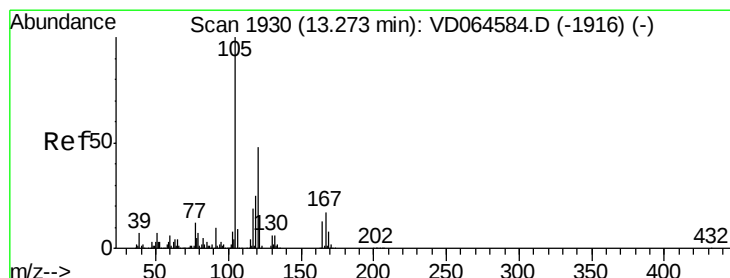
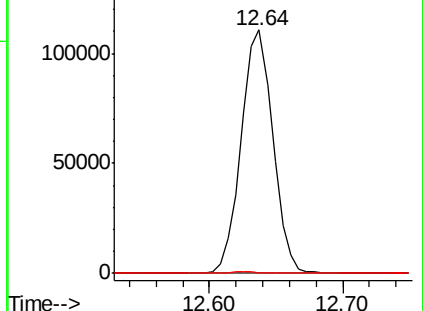
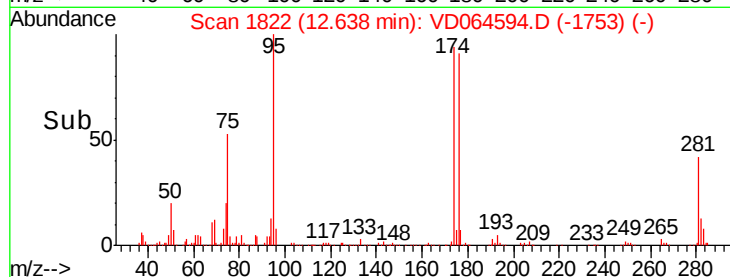
89 0.4 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 1.451 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD064594.D

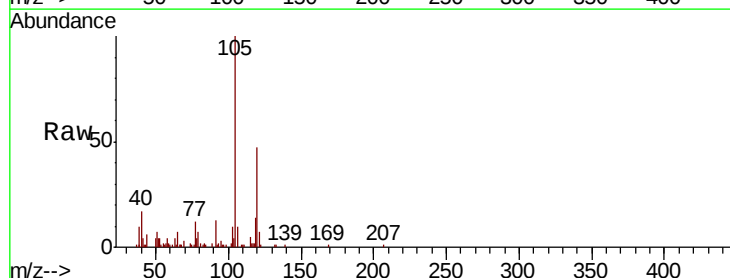
Acq: 26 Dec 2019 12:45

Tgt Ion:105 Resp: 34020

Ion Ratio Lower Upper

105 100

120 46.8 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

